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8380 Resource Rd.
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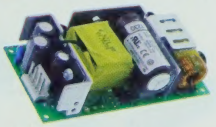
FL 33404-1733

www.mpja.com

5VDC 4A Plug Power Supply Openpeak
18520 PS | $6.95 ea

Tamper Resistant Recptacle 15A Ivory
33797 PL | $1.25 ea

24V @ 2.7Amp SL Power Supply
33786 PS | $9.95 ea



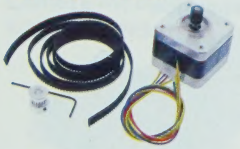
General Purpose Solder Station
15860 TL | $14.95 ea

Adjustable from 5 to 50 Watt (800 deg. F max) Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.
For replacement tips and handle visit our website www.mpja.com

12VDC ACME Gear Motor 32575 MD | $19.95 ea

12VDC Windshield Washer Pump
32887 MI | $9.95 ea

NEMA 17 10.2V Step Motor and COG Belt Set
33358 MS | $12.95 ea

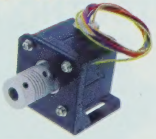


UNI-T UT33B Digital Multimeter with 6 Function
32046 TE | $17.95 ea
Light weight 6 function, Backlit, 3-1/2" digit hand held meter with 1/2" LCD display. Includes 9V battery, test leads, instructions & Protective Boot. Fuse Overload protection.
CE listed; IEC 1010 CatII-600V Compliant

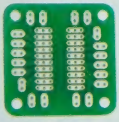
24VDC Leadscrew Gear Head Motor
32681 MD | $19.95 ea

12VDC 24 Piranha LED Board Cool White
32035 OP | $4.95 ea

NEMA 17 10.2V Step Motor and Coupler
33449 MS | 8mm | $10.95 ea
33448 MS | 1/4" | $10.95 ea
4 Wire Leads with motor bracket and coupler



20 pin IC Proto Board
32540 PB | $1.00 ea
Single Sided .062" phenolic board, .1" pad spacing

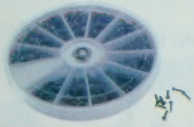


USB Laptop LED Flexlight 32250 OP | $3.95 ea

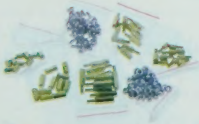
Dual USB 2A Plug Supply 32736 PS | $2.95 ea

Cat 6e Flat LAN Cable
33501 TT | 5 meter | $3.49 ea
33502 TT | 10 meter | $4.95 ea
33503 TT | 15 meter | $6.95 ea
33504 TT | 20 meter | $8.49 ea

Metric Micro Screws in Selector Box
33441 HD | $12.95 ea



150pc Brass Standoff Kit 33401 HD | $3.95 ea



Cigarette Lighter Socket 33777 PL | $2.95 ea

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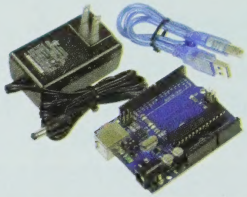
Visit us at www.mpja.com for complete line of products

Uno-R3 Compatible Micro Controller Kit

30297 MP | $19.95 ea

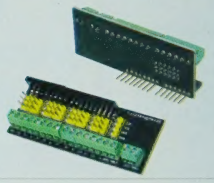
Includes Power Supply & USB Cable Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc.en and others on-line. Includes Power Supply & USB Cable Accepts all Plug-in modules for Arduino controller. Information & Freeware available through www.arduino.cc.en and others on-line.



UNO-R3 Protective Case

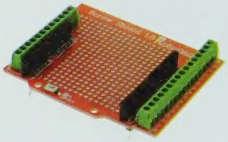
32182 MP | $2.95 ea

UNO Terminal Shield Board 32799 MP | $5.95 ea

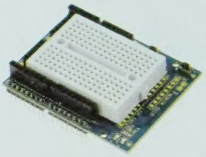


Perfboard Terminal Arduino Compatible Shield

32797 MP | $5.95 ea

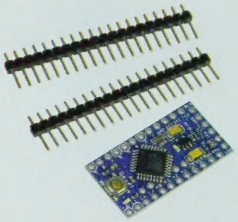


Solderless Breadboard, Arduino Compatible Shield 32400 MP | $8.95 ea



Pro Mini Compatible Micro Controller

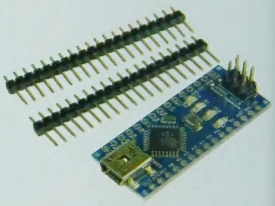
31355 MP | $4.95 ea



Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www. arduino.cc.en and others on-line.

Nano V3 Compatatible Micro Controller

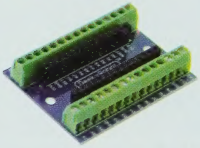
31354 MP | $9.95 ea



Arduino ProMini Clone with headers & Wider Voltage Range. Get the same power as the UNO, or Nano in a low cost and small footprint. Features a Atmega328, 8bit, 16mHz processor, built in 5V regulator, 8 analog inputs and up to 14 digital I/O pins. Information & Freeware available through www. arduino.cc.en and others on-line.

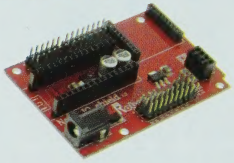
Nano Terminal Shield Board

32796 MP | $4.95 ea



Nano Shield W/ Wireless Expansion

33324 MP | $8.95 ea



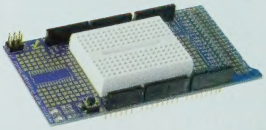
Mega R3 Compatible Controller

33311 MP | $19.95 ea

Compatable with most existing Duemilanove & Dieci program, shield & IDEs The Mega is major step up in processing power. Information & Freeware available through, forums, www.arduino.cc.en, & others on-line.

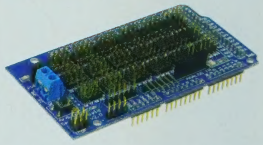
Mega Prototyping Breadboard

31547 MP | $9.95 ea



Mega I/O Sensor Shield V2.0

31060 MP | $12.95 ea



Iduino Starter Upgrade Kit 33312 MP | $39.95 ea

This is a upgrade version UNO R3 compatible starter kit, with added components to achieve more features and experiments. Includes Links to Data sheets. Information & Freeware available through, forums, www.arduino.cc.en, & others on-line.

Iduino Rfid Starter UpgradeKit

33313 MP | $55.95 ea

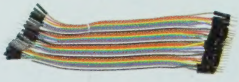
This is a UNO R3 compatible starter kit , with added components for RFID Includes Links to Data sheets and information. available through, forums, www.arduino.cc.en, & others on-line.

65 Pcs. Molded Jumper Set

30116 PL | $3.95 ea

40 Pcs. Male To Male Jumper Set

31217 PL | $4.95 ea

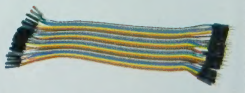


40 Pcs. Female To Female Jumper Set

30117 PL | $3.95 ea

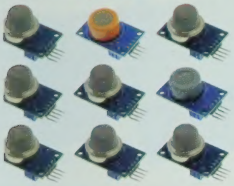
40 Pcs. Male To Female Jumper Set

31218 PL | $2.72 ea



9 pcs. Gas Sensor kit

32507 MP | $24.95 ea

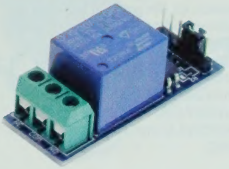


MQ-Series gas sensors coupled with a LM393 IC. 4 pin connections. Can be interfaced to an Arduino or other micro controllers. Includes 1 ea Sensor module

- MQ-2 Combustable Gas Sensor
- MQ-3 Ethanol Alcohol Sensor
- MQ-4 Methane Gas Sensor
- MQ-5 Natural Gas Sensor
- MQ-6 Propane-Butane Sensor
- MQ-7 Carbon Monoxide Sensor
- MQ-8 Hydrogen Gas Sensor
- MQ-9 Methane-Propane Sensor
- MQ-135 Air Quality Sensor

5V Single Relay Board

32574 MP | $2.95 ea



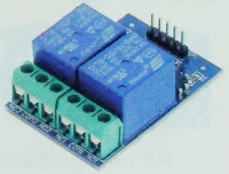
Raspberry-Pi-2B Starter Set

32670 MP | $75.95 ea

Raspberry-Pi-2B Controller with Heavy Duty Aluminum Case, Fan & Power Supply Full featured 32 bit, Raspberry-PI 2 Model B. This small card sized microcomputer Features: Broadcom's BCM2836 SOC 900mHz processor,1GB RAM and VideoCore IV 3D Graphics core Requires you to download an Operating System to your SD Card Software: Full range of ARM GNU/Linux distributions NOOBS, Raspbian, Pidora, Windows10 (Fall of 2015)

5V Dual Relay Board

32707 MP | $3.95 ea

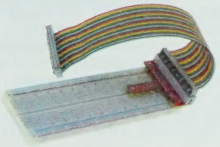


Raspberry-Pi 2 Aluminum Case

32593 MP | $24.95 ea

28 Pin GPIO Breakout Breadboard Kit for Raspberry-Pi

33050 MP | $10.95 ea

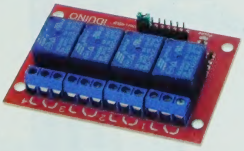


Serial to WiFi Stand Alone Module

33323 MP | $6.95 ea

12V Quad Relay Board, Isolated

33330 MP | $7.95 ea

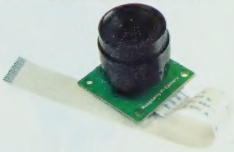


Raspberry-Pi Camera Module

31178 MP | $29.95 ea

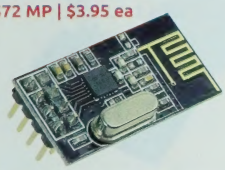
Raspberry-Pi Camera Module

31497 MP | $34.95 ea



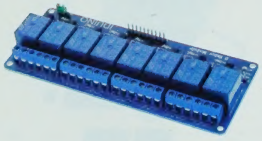
2.4 Ghz WIRELESS TRANSCEIVER

31572 MP | $3.95 ea



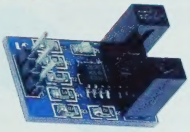
5V 8 Channel Relay Board

33329 MP | $10.95 ea



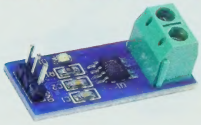
OPTO Interrupter Sensor

31577 MP | $2.95 ea



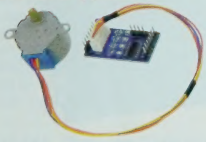
Current Sensor

5Amp | 31584 MP | $4.79 ea
20Amp | 31944 MP | $4.79 ea
30Amp | 31586 MP | $4.79 ea



Stepmotor, 5V Gear-head and Driver Board, ULN2003

31592 MP | $4.95 ea



Moisture Sensor

30282 MP | $6.95 ea

Programmable Logic Array Board

32690 MP | $19.95 ea

USB to RS-232 Arduino Bridge Control, CP2102

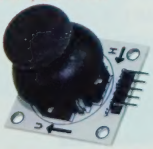
31575 MP | $4.95 ea

Humidity Sensor

30287 MP | $5.95 ea

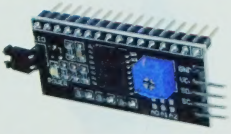
X-Y Jpystick

31064 MP | $4.95 ea



Serial SPI/LCD Driver Board

30285 MP | $3.95 ea



3 Axis Accelerometer Sensor

31583 MP | $4.95 ea

Programmable Digital Thermostat "C"

32709 MP | $9.95 ea

Thermostat, Auto Heat/Cool, "C"

32964 MP | $13.95 ea

Arduino 37 pc. Sensor Starter Kit

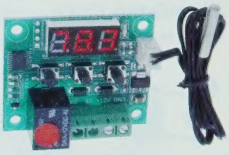
33317 MP | $35.95 ea

Sensor kit for general use with Arduinos and other microcontrollers This 37pc. kit is ideal for Classrooms or Instructional Labs. Includes Handy latching compartment storage box and Experimenter's Manual covering Sketches & use with the Arduino UNO

Digital Temperature Controller

32184 MP | Celsius | $5.95 ea

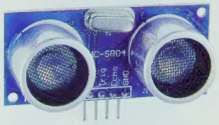
32764 MP | Fahrenheit | $6.95 ea



Compact digital thermostat with isolated relay output and 3digit 0.28" LED display. Features: Programmable set Points, Cool or Heat control, Hysteresis, Delay and High Temp. Alarm. Power: 12VDC Current: ~65mA Relay energized Accuracy: Measurement : 0.1deg. Relay: SPST-NO 10A/14VDC; 5A/125VAC Sensor: NTC waterproof probe (12in. leads) Terminal Strip for Power & Relay contacts.

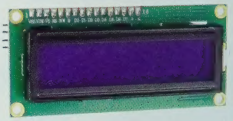
Ultrasonic Range Module

19605 UT | $3.31 ea



Serial 2 X 16 LCD

31164 MP | $9.95 ea



Motion Detector with Light Sensor

31227 SC | $3.95 ea

Programmable Security Key Pad

31928 SC | $49.95 ea

I/R XMIT/Receiver Pair

32352 MP | $3.95 ea

RFID/NFC Reader/Writer

31111 MP | $11.95 ea

Motion Detector Mini Module

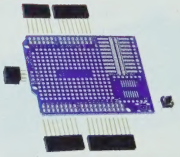
32061 SC | $3.95 ea

5VDC Time Delay Relay Module

31807 RL | $3.95 ea

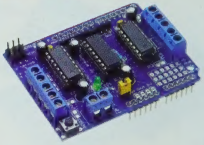
Perfboard Shield Kit

32795 MP | $4.95 ea



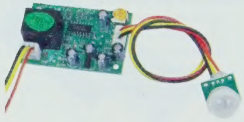
Motor Shield Board

30292 MP | $10.95 ea



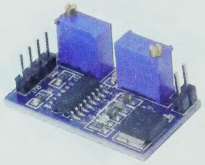
PIR Relay Module

32183 SC | $5.95 ea



Adj. PWM Module

31951 MP | $5.95 ea

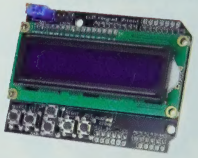


Sensor Shield

31058 MP | $7.95 ea

2 X 16 LCD Shield

31059 MP | $11.95 ea

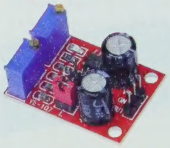


Microwave Motion Detector

31234 SC | $8.95 ea

Adj. Pulse Generator

31070 MI | $5.95 ea



Dual Audio Amplifier

32705 MP | 50Watt | $14.95 ea

32706 MP | 100Watt| $19.95 ea

14 Watt Audio Amplifier

31806 MI | $5.95 ea

General Purpose Solder Station

15860 TL | $14.95 ea

Adjustable from 5 to 50 Watt (800 deg. F max) Station provides on-off switch, knob to control wattage, built-in stand, tip cleaning sponge & 1/32" point tip. 115 VAC line.
For replacement tips and handle visit our website www.mpja.com

Temperature Controlled Solder Station

15845 TL | $46.95 ea

Temperature controlled soldering station with LED display. Heat sensor located near the tip for fast response and +-10 deg. "F" control. Rated at 48Watts, 24Vac handle. Temperature range: 320 deg. "F" to 800 deg. "F". Isolated tip, fused line. 117 VAC. For replacement tips and handle visit our website www.mpja.com

Adjustable Soldering Iron 17517 TL | $12.95 ea

LED Lighted Soldering Iron 17516 TL | $5.95 ea

SMD Hot Tweezer Adapter 15847 TL | $12.95 ea

For 15845 Tl station Only!

Replacement Handle

15846 TL | $6.95 ea

For 15845 Tl station Only!

Mini Hobby Solder Station

16924 TL | $12.95 ea

Soldering Iron Kit

16431 TL | $7.95 ea

Desoldering Iron

16922 TL | $6.95 ea

Hobby Solder Station

19154 TL | $15.95 ea

Adjustable Arm Smoke Absorber

17529 TL
$39.95 ea

Benchtop Smoke Absorber

15166 TL
$27.99 ea

Desoldering Station for Circuit Repair

19034 TL | $119.95 ea

Economical desoldering station designed for use with lead free solders. Ergonomic pistol grip Head with trigger for rapid removal of solder. Displays both the Set Point & the Actual Tip temperature.
Temp. Range: 160-480Deg. "C"
Watts: 80W running/130W cold start heat-up
Power: 115VAC/ 60Hz.
Features: Internal vacuum pump, LCD Display, electronic temperature control, PTC Ceramic Heater, Readout in "F" or "C" . 3ft. cable/hose length.
Includes: 0.8, 1.0 & 1.3mm tips & 3 filter/traps.
Replacemant parts Available at www.mpja.com

Hot Air Rework Station 16121 TL | $99.95 ea

Hot air repair/rework station for SMT devices.
Features: a fast heating ceramic heater, internal air supply, stable temperature, comfort grip handle, interchangeable hot air nozzles for PLCC/SOP/ etc. devices. Adj. air flowand temperature.
Temperature range: 150 deg.-500deg. "C".
16123-TL QFP 10 X 10 (mm),
16124-TL QFP 14 X 14 (mm),
16122-TL Single 2.5mm Dia.,
16128-TL Single 4mm Dia.
Visit www.mpja.com for more nozzles

Solder Station

32580 TL | $59.95 ea

Mini Solder Sucker

20041 TL | $3.95 ea

Antistatic Solder Sucker 15859 TL | $6.95 ea

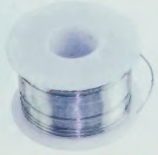
DMM, Power Supply and Solder Station

28901 TL | $125.95 ea

Technician work station with Soldering station, Digital Meter & Adjustable Power Supply. CE listed
Includes: Meter Probes, Power supply clip leads, Soldering Iron stand.

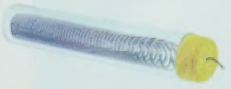
1/2lb. 60/40 Solder

19266 TL | $12.95 ea

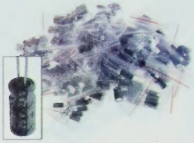


10gm 63/37 Solder

32775 TL | $1.99 ea

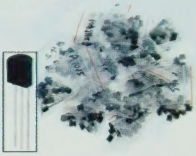


260pcs Electrolylic Capacitor Assortment
32531 CR | $10.95 ea

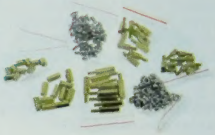


400pcs Monolythic Ceramic Capacitor Assortment
32534 CM | $10.95 ea

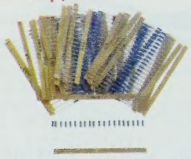
360pcs TO-92 Transistor Assortment
32376 QT | $8.95 ea



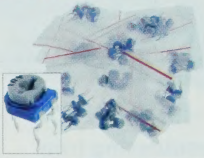
150pcs Brass Standoff Kit
33401 HD | $3.95 ea



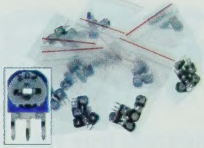
520pcs 1/4W Resistor Assortment
32037 RS | $4.95 ea



65pcs Variable Resistor Kit Horizontal Mount
32359 VR | $4.95 ea

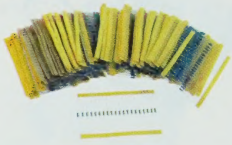


50pcs Variable Resistor Kit Vertical Mount
32358 VR | $3.95 ea

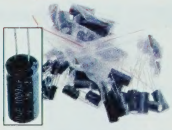


88pcs Nylon Standoff Kit
33372 HD | $4.95 ea

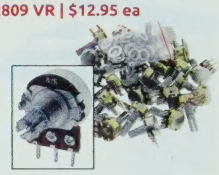
2600pcs 1/4W Resistor Assortment
33418 RS | $14.95 ea



70pcs 16VDC Electrolylic Capacitor Assortment
32532 CR | $5.95 ea



30pcs Variable Resistor Kit Vertical Mount
32809 VR | $12.95 ea



50pcs Resettable Thermal Fuses Kit
33414 FU | $5.95 ea

230pcs 2W Resistor Assortment
32763 RS | $9.95 ea

190pcs Polyester Cap Kit
33416 CR | $6.95 ea

100pcs Ceramic Capapacitor Kit
33413 CR | $3.95 ea

50pcs GMA (5X20mm) Fuse Assortment
32762 FU | $4.95 ea

255pcs Diode and Rectifier Assortment
33412 DI | $6.95 ea

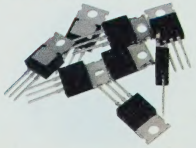
140pcs 1/2W Zener Diode Assortment
33028 DI | $3.95 ea

70pcs 1W Zener Diode Assortment
33027 DI | $4.95 ea

6 colors SPST-NO Pushbutton Button Set
32728 SW | $1.95 ea

58pcs Plastic Gear Assortment
32185 HD | $7.95 ea

8pcs 5-24V Positive Voltage Regulators Kit
32375 RG | $2.95 ea



80pcs 78L Series Positive Voltage Regulator Kit
33417 RG | $4.95 ea

60pcs 79L Series Negative Voltage Regulator Kit
33415 RG | $4.95 ea

Selectable OutoutBench Supply

29902 PS | $14.95 ea

P/N: 9902-PS
Input: 90-250VAC 60Hz
Outputs: 3,4.5, 6, 7.5,9,12VDC @ 2000mA Selectable
Specifications/Features: Enclosed, Benchtop regulated, switching supply. Switch selectable output. Front panel Power switch, Select switch & Binding posts. 6ft. 2 wire input power cord with 2 blade plug.

0-15VDC @ 1A Linear Bench Supply

29319 PS | $32.00 ea

0-60VDC @ 10A Linear Bench Supply

29960 PS | $259.00 ea

0-30VDC @ 3A Linear Bench Supply

29601 PS | $89.00 ea

0-50VDC @ 3A Linear Bench Supply

29612 PS | $99.00 ea

Dual 0-30VDC @ 3A Bench Supply

29623 PS | $139.95 ea

Input: 110 VAC 60Hz
Outputs: #1: 0-30VDC @ 0-3A
#2: 0-30VDC @ 0-3A #3: 5VDC @ 3A fixed
Dual Constant Voltage or Current supply with 4 LED meters that displays Volts & Amps. Selectable Independent, Series or Parallel operation of Adj. supplies (0-60V/3A or 0-30V/6A). RMS ripple: 20mVp/p (CV) 50mAp/p (CC) Front panel output Binding Posts.Metal case & rubber feet. Internal Temp. controlled fan

0-18Vdc @ 3A Linear Bench Supply

29600 PS | $59.95 ea

Input: 110 VAC 60Hz
Output: 0-18VDC @ 0-3A
Constant Voltage or Current
Specifications/Features: True Constant Current (Can a short) Enclosed Linear bench supply with dual LCD displays for output Volts & Amps. .01%+3mV Line /.02%+3mV Load regulation, <1mV RMS ripple. Front binding posts. Metal case & rubber feet. Internal Temp. controlled fan.

0-30Vdc @ 3A Switching Bench Supply

29616 PS | $49.95 ea

0-30VDC @ 5A Switching Bench Supply

31017 PS | $69.95 ea

0-30VDC @ 10A Linear Bench Supply

29604 PS | $169.00 ea

0-30VDC @ 24A Switching Bench Supply

29317 PS | $249.00 ea

0-30VDC @ 10A Switching Bench Supply

29631 PS | $109.95 ea

Input: 110 VAC 60Hz
Output: 0-30VDC, 0-10A
Constant Voltage/Current
Specifications/Features: Adjustable Voltage/adjustable Current limit. Enclosed regulated switching bench supply with backlit LCD display for output Volts & Amps. 0.2% +10mV Line/0.2%+5mV Load regulation, <100mV RMS max ripple. Banana jacks output. Internal fan.

0-120VDC @ 3A Linear Bench Supply

29313 PS | $265.95 ea

Input: 110 VAC 60Hz
Output: 0-120VDC @ 0-3A
Specifications/Features: Regulated Bench supply with Adjustable Current limit. LED meter displays Volts & Amps. Push button switch connects supply to load. Multi turn Voltage control for precise settings. 5mV RMS ripple. Front panel output Binding Posts & Terminal strip for remote Voltmeter Sensing at the load.

0-120VDC @ 1A Linear Bench Supply

29312 PS | $129.00 ea

0-30VDC @ 19A Linear Bench Supply

29950 PS | $269.00 ea

0-50VDC @ 30A Linear Bench Supply

29970 PS | $745.00 ea

Note: Very Heavy Power Supply
Must Be Shipped By Motor Carrier (Truck)

0-30VDC @ 16A Switching Bench Supply

29316 PS | $159.00 ea

Handheld Adjustable Supply

32577 PS | $149.95 ea

P/N: PS2002H
Input: 90-265VAC 50/60Hz
Output: 0-30VDC @ 50W Limits:3.75A @12V
1.6A @ 30V Handheld switching supply with backlit LCD display and Adjustable Current Limit. Output On/Off button, USB Select button, Store & Recall function Button, Adjust Up/Down Buttons. Output Adjustable in 10mV/10mA incraments.

GENERAL SPECIFICATIONS
RoHS Compliant

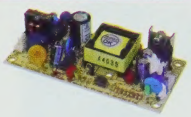
360° VIEW @MPJA.COM

High reliability line of power supplies designed to operate over the wide range of AC power found world wide.

- **Overvoltage, Overcurrent, Short Circuit Protected**
- **No minimum load UL/CANADA/USA/CE listed.**
- **100% Full Load Burn-in Tested Full rated to 50°C**

MTBF: 100,000 Hours
Operating Temp. & Humidity: -10° C to +50° C 20%-93% Non Condensing
Storage Temp. & Humidity: -20° C to +85° C 20%-95% Non Condensing
Cooling: Convection
Approvals/Standards: cULus Ref. No.: E22014 Safety: GB4943, UL60950, EN60950 EMC: GB9254, EN55022 class B, EN55024 -3-2/3 EN61000-4-2/3/4/5/6/8/11
Line Regulation (Full Load): < +/- 0.5%
Load Regulation: .05% (0-100%)
Inrush Current: 20A/115V, 40A/230V
Input Leakage Current: <0.7mA @ 230VAC
Output Adjustment Range: +/- 10%
Overload Protection: 40/60W:110-150%-100/150W: 110-130%
Over Voltage Protection: 115-150%
Rise Time: 50mS Full Load (Typical)
Hold Up Time: 20mS Full Load (typical)
Withstand Voltage (1 Min.): Input to Output: 3.0KV AC Input to Frame/Ground: 1.5KV AC Output to Frame/Ground: 0.5KV AV

15W SUPPLIES

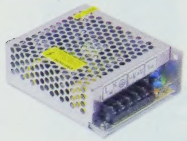


STOCK #	OUTPUT	PART #
18438-PS	5V/3A	HF15W-SPL-5
18439-PS	12V/1.3A	HF15W-SPL-12
18440-PS	24V/0.6A	HF15W-SPL-24
18441-PS	48V/0.3A	HF15W-SPL-48

Qty: 1-9 $15.99 ea | Qty: 10-99 $14.95

Input: 85-264 VAC 47-63Hz Universal
L: 4.0" **W:** 1.82" **H:** 1.0" **Wt:** .2lb

25W SUPPLIES



STOCK #	OUTPUT	PART #
17320-PS	3.3V/6A	HF25W-SL-3.3
17321-PS	5V/5A	HF25W-SL-5
17322-PS	12V/2.1A	HF25W-SL-24
17323-PS	15V/1.7A	HF25W-SL-15
17325-PS	48V/0.57A	HF25W-SL-48

Qty: 1-9 $14.90 ea | Qty: 10-99 $12.60

Input: 85-264 VAC 47-63Hz Universal
L: 3.88" **W:** 3.23" **H:** 1.38" **Wt:** .6lb

40W SUPPLIES

STOCK #	OUTPUT	PART #
16000-PS	5V/8A	HF-40W-SL5
16001-PS	12V/3.5A	HF-40W-SL12
16002-PS	15V/2.8A	HF-40W-SL15
16003-PS	24V/1.8A	HF-40W-SL24
16004-PS	48V/0.8A	HF-40W-SL48

Qty: 1-9 $16.00 ea | Qty: 10-99 $14.80

Input: 85-264 VAC 47-63Hz Universal
L: 5.08" **W:** 3.86" **H:** 1.57" **Wt:** 1.1lb

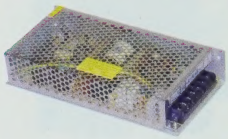
60W SUPPLIES

STOCK #	OUTPUT	PART #
16005-PS	5V/12A	HF-60W-SL5
16006-PS	12V/5A	HF-60W-SL12
16007-PS	15V/4A	HF-60W-SL15
16008-PS	24V/2.5A	HF-60W-SL24
16009-PS	48V/1.3A	HF-60W-SL48

Qty: 1-9 $19.95 ea | Qty: 10-99 $18.90

Input: 85-264 VAC 47-63Hz Universal
L: 6.3" **W:** 3.86 **H:** 1.54" **Wt:** .1.2lb

100W SUPPLIES



STOCK #	OUTPUT	PART #
16010-PS	3.3V/20A	HF-100W-SF3.3
16011-PS	5V/20A	HF-100W-SF5
16012-PS	7.5V/13.5A	HF-100W-SF7.5
16014-PS	15V/6.7A	HF-100W-SF15
16016-PS	48V/2.2A	HF-100W-SF48

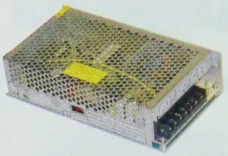
Qty: 1-9 $26.50 ea | Qty: 10-99 $25.60

STOCK #	OUTPUT	PART #
16013-PS	12V/8.5A	HF-100W-SF12
16015-PS	24V/4.5A	HF-100W-SF24

Qty: 1-9 $21.69 ea | Qty: 10-99 $18.95

Input Selectable: 85-132 VAC 47-63Hz 170-264 VAC 47-63Hz
L: 7.83" **W:** 3.86" **H:** 1.54" **Wt:** 1.5lb

150W SUPPLIES



STOCK #	OUTPUT	PART #
16017-PS	5V/30A	HF-150W-SF5
16018-PS	7.5V/20A	HF-150W-SF7.5
16019-PS	9V/17A	HF-150W-SF9
16033-PS	28V/5.5A	HF-150W-SF28
16034-PS	36V/4.2A	HF-150W-SF36

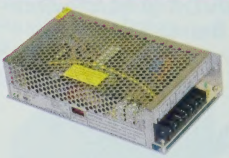
Qty: 1-9 $28.60 ea | Qty: 10-99 $27.95

STOCK #	OUTPUT	PART #
16020-PS	12V/12.5A	HF-150W-SF12
16032-PS	24V/6.5A	HF-150W-SF24

Qty: 1-9 $26.85 ea | Qty: 10-99 $23.69

Input Selectable: 85-132 VAC 47-63Hz 170-264 VAC 47-63Hz
L: 7.83" **W:** 4.33" **H:** 1.97" **Wt:** 1.6lb

240W SUPPLIES



STOCK #	OUTPUT	PART #
18434-PS	5V/40A	HF-240W-SF5
18437-PS	48V/5A	HF-240W-SF48

Qty: 1-9 $45.00 ea | Qty: 10-99 $38.90

STOCK #	OUTPUT	PART #
18435-PS	12V/18A	HF-240W-SF12
18436-PS	24V/10A	HF-240W-SF24

Qty: 1-9 $34.95 ea | Qty: 10-99 $32.49

Input Selectable: 85-132 VAC 47-63Hz 170-264 VAC 47-63Hz
L: 7.83" **W:** 4.33" **H:** 1.97" **Wt:** 1.6lb

Heat Sink Compound, #860, Squeeze Tube MG Chemical
30389 MG
140gm | $15.26 ea

Flux Remover #4140 400gm MG Chemical
30364 MG
400gm | $13.34 ea

Silicone Conformal Coating, #422 MG Chemical
30366 MG
340gm | 18.95 ea

Isopropyl Alcohol 99.9% , #824, Quart Bottle MG Chemical
30373 MG
1qt | 12.95 ea

Thermal Grease II, #8616, Syringe MG Chemical
30391 MG
8.2gm | 5.95 ea

Electrosolve Contact Cleaner, #409B MG Chemical
30361 MG
140gm | $7.75
30362 MG
340gm | $ 13.34

Heavy Duty Flux Remover, #413B MG Chemical
30363 MG
425gm | 17.95 ea

Isopropyl Alcohol Wipe, #824-W MG Chemical
30374 MG
25pkg | 11.45 ea

Thermal Conductive Adhesive, 8329TCS, Slow Cure MG Chemical
31968 MG
200ml | $89.95 ea

Super Cold 134 #403A MG Chemical
30355 MG
185gm | $10.19
30356 MG
400gm | $13.87

Contact Cleaner with Silicone, #404B MG Chemical
30357 MG
140gm | $7.85
30358 MG
340gm | $12.39

Alcohol Wipes, General purpose, #8241-T, MG Chemical
30375 MG | 8.95 ea

Thermal Conductive Adhesive, #8329TCS,Slow Cure MG Chemical
31967 MG
6ml | $9.85 ea

Super Wash Cleaner/ Degreaser, #406B MG Chemical
30359 MG
425gm | $15.26 ea

Nu-Trol Control Cleaner, #401B MG Chemical
30350 MG
140gm | 7.65 ea

Rosin Flux, Liquid #835 Bottle MG Chemical
30382 MG
100ml | 8.95 ea

Adhesive, Extreme Conductivity #8330S Silver Filled MG Chemical
30379 MG
21gm | $65.00 ea

Acrylic Conformal Coating, #419C MG Chemical
30365 MG
340gm | $17.95 ea

Super Duster 134, #402A MG Chemical
30351 MG
285gm | $9.51
30352 MG
450gm | $14.79

Rubber Renue, #408A Bottle MG Chemical
30360 MG
125ml | 7.95 ea

Thermal Conductive Adhesive, #8329TCM, Medium Cure MG Chemical
31969 MG
6ml | $9.95 ea

Super Shield, Nickel Coating, #841, MG Chemical
30384 MG
340gm | $36.95 ea

Super Duster 152, #402B MG Chemical
30353 MG
285gm | $7.45
30354 MG
400gm | $9.95

Solder Braid MG Chemical
30369 MG
#424 | $2.85
30370 MG
425 | $2.95
30371 MG
#426 | $3.15
30372 MG
#442 | $10.95

Adhesive, Conductive #8331, Silver Filled MG Chemical
30380 MG
14gm | 39.95 ea

Red GLPT Varnish, #4228 Bottle MG Chemical
30367 MG
225ml | 24.97 ea

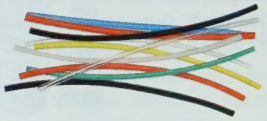
Black Heatshrink Rolls 100'
16334 HS
0.8mm | $5.95
16335 HS
1mm | $5.95
16340 HS
12mm | $12.96
16341 HS
18mm | $24.95

Heat Shrink Assortment, 160Pcs. 4" Black
32258 HS
$11.95 ea

Conductive Grease, #846 Carbon Filled, MG Chemical
30386 MG
80gm | 15.95 ea

Potting Compound, #832C Clear MG Chemical
30377 MG
375ml | 29.61 ea

1/8" Heat Shrink Assortment, 6in. Long, Color
16831 HS | $2.25 ea



Heat Shrink Assortment, 4" Long, Color
16843 HS
$11.95 ea

Conductive Ink Pen, #8420-P Silver Filled, MG Chemical
30385 MG
8.5gm | 27.95 ea

Potting Compound, #832B Black MG Chemical
30376 MG
375ml | 30.57 ea

3/16" Heat Shrink Assortment, 6in. Long, Color
16832 HS | $2.50 ea

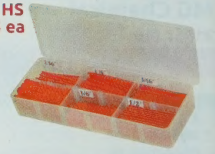
Heat Shrink Assortment, 2-1/2" Long, Black
16835 HS
$10.95 ea

White Lithium Grease, #8461 Squeese Tube, MG Chemical
30387 MG
85ml | 7.15 ea

Potting Compound, #833FRB Flame Retardant - MG Chemical
30378 MG
375ml | 43.95 ea

1/4" Heat Shrink Assortment, 6in. Long, Color
16833 HS | $2.75 ea

Heat Shrink Assortment, 2-1/2" Long, Red
16836 HS
$10.95 ea



Silicone Grease, #8462 Translucent Squeeze Tube MG Chemical
30388 MG
85ml | 12.39 ea

Total Ground Conductive Carbon #838 Aerosol Can MG Chemical
30383 MG
340gm | 18.95 ea

3/8" Heat Shrink Assortment, 6in. Long, Color
16834 HS | $2.95 ea

Heatshrink Wire Marker Kit
16483 HS
$12.95 ea

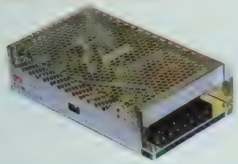
Connector Coat Black, #4229 Bottle MG Chemical
30368 MG
55ml | 14.95 ea

Adhesive, Conductive, #8331S, Silver Filled MG Chemical
30381 MG
15GM | 65.00 ea

Wiring Accessory Kit
16485 HS | $16.95 ea

Heat Shrink, Dual Wall Assortment. 4" Long
16484 HS
$16.95 ea

9V @ 16.7Amp Meanwell Supply
18367 PS | $14.95 ea



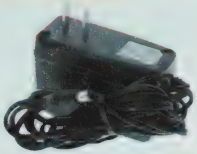
12VDC 750mA USED Unreg. Plug Supply Leader 33475 PD | $2.95 ea

9VDC 1A Adapter Power Supply Ault
32214 PS | $4.95 ea
Includes Power Cord.

Adjustable Boost DC/DC Converter
31397 PS | $4.95 ea

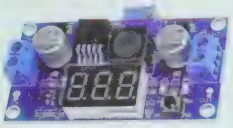
+5V, +3.3V, +24V & -12V Meanwell Supply
18366 PS | $29.95 ea

12VDC 2.5A Plug Power Supply Netgear
33380 PS | $6.95 ea

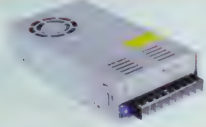


12VDC 2A Adapter Power Supply Sino
32483 PS | $7.95 ea
Includes Power Cord.

Adjustable Boost DC/DC Converter with Meter 32051 PS | $7.95 ea



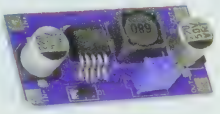
HF320W Hengfu Supply
31340 PS | 5V/60A | $59.95 ea
31342 PS | 12V/25A | $59.95 ea
31344 PS | 24V/13A | $59.95 ea



5VDC 4A Plug Power Supply Openpeak
18520 PS | $6.95 ea

12VDC 2.5A Used Adapter Power Supply Leader 30201 PS | $5.95 ea

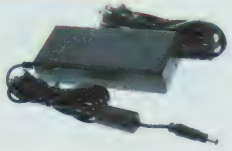
Adjustable Buck DC/DC Converter
30148 PS | $3.95 ea



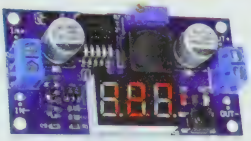
28V @ 10.8Amp NAO Supply 18927 PS | $29.95 ea

5VDC 2A Plug USB Power Supply
32736 PS | $2.95 ea

12VDC 5A Adapter Power Supply Lite-On
33120 PS | $12.95 ea



Adjustable Buck DC/DC Converter with Meter 30149 PS | $9.95 ea



15V @ 3Amp Meanwell Supply 31506 PS | $9.95 ea

9VDC 1A Power Supply Kenwood
19463 PS | $2.95 ea

24VDC 5A Adapter Power Supply Megmeet
32885 PS | $14.95 ea
Includes Power Cord.

Constant Voltage & Current DC/DC Converter
31562 PS | $4.95 ea

24V @ 2.7Amp SL Power Supply
33786 PS | $9.95 ea

15VDC 900mA Power Supply iConnect
32486 PS | $2.50 ea

48VDC 2.08A Adapter Supply XP Power
32492 PS | $18.95 ea

Adjustable DC/DC Regulator
31800 PS | $2.95 ea

Chassis Mount Transformers

A

B

Selecting Transformers

Volts & Current listed are nominal RMS. Open circuit and loaded values are different. Type of rectifier/filter circuit will effect secondary & output current and they can be very different.

Full wave center tap choke input filter:
Transformer secondary amps are .7 X required output amps.

Full wave center tap cap input filter:
Transformer secondary amps are 1.2 X required output amps.

For Full wave bridge choke input filter:
Transformer secondary amps are = to required output amps

For Full wave bridge cap input filter:
Transformer secondary amps are 1.8 X required output amps.

STOCK #	STYLE	INPUT	OUTPUT VOLTS	AMPS	LEADS	DIMN. (L W H)	WT.	1EA
27838-TR	A	110/220VAC	12VAC (6V-0V-6V)	1A	6"	2-3/4" x 1-1/2" x 1-5/8"	.6	$5.75
27839-TR	A	110/220VAC	12VAC (6V-0V-6V)	2A	6"	3-1/4" x 2" x 2"	1.3	$7.95
27840-TR	A	110/220VAC	12VAC (6V-0V-6V)	4A	6"	4" x 2" x 2-1/4"	1.7	$13.95
27841-TR	A	110/220VAC	18VAC (9V-0V-9V)	1A	6"	3" x 2" x 1-3/4"	.8	$5.95
27842-TR	A	110/220VAC	18VAC (9V-0V-9V)	1.5A	6"	3-1/4" x 2" x 1-7/8"	1.1	$6.95
27843-TR	A	110/220VAC	18VAC (9V-0V-9V)	2A	6"	3-1/4" x 2" x 1-7/8"	1.1	$7.95
27844-TR	A	110/220VAC	24VAC (12V-0V-12V)	2A	6"	3-1/2" x 2-1/4" x 2"	1.4	$9.95
27845-TR	A	110/220VAC	24VAC (12V-0V-12V)	4A	6"	3-7/8" x 2-1/2" x 2-1/4"	2.3	$16.95
27846-TR	B	110/220VAC	24VAC (12V-0V-12V)	10A	6"	3-3/4" x 3-5/8" x 3-3/8"	5.5	$35.95

The Transformers above have a Center tapped secondary allowing use of Half wave, Full wave center tap or Full wave bridge rectifier circuits.

500VA 0-130VAC Variable Power Transformer

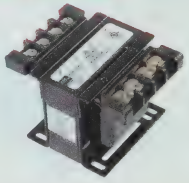
15162 TR
$49.95 ea

2KVA 0-130VAC Variable Power Transformer

15163 TR
$104.95 ea

Control Transformer 120/220/240/480V 50VA

31833 TR | $39.95 ea

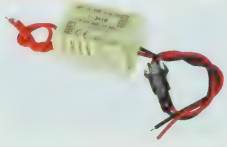


8/16V, 80VA Transformer HAMMOND

32755 TR
$24.95 ea

LED Driver 3W Output 85-265VAC Input

31536 PS | $1.95 ea

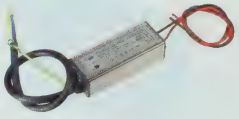


LED Driver 10W Output 90-264VAC Input

32817 PS | $3.95 ea

LED Driver 20W Output 110-260VAC Input

31538 PS | $5.95 ea



LED Driver 30W Output 110-260VAC Input

31539 PS | $8.95 ea

LED Driver 3W Output 12VDC Input

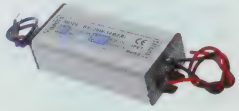
31556 PS | $1.95 ea

LED Driver 10W Output 12-24VAC/DC Input

31557 PS | $3.95 ea

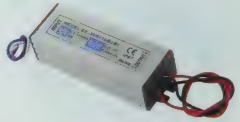
LED Driver 20W Output 12-24VDC Input

31558 PS | $8.95 ea



LED Driver 30W Output 12-24VDC Input

31559 PS | $8.95 ea

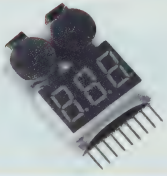


Sealed Lead Acid Re-cargable Battries

17280 BT | 6V 4Amp | $7.95 ea
14817 BT | 6V 8Amp | $18.95 ea
14819 BT | 12V 7Amp| $20.95 ea

LIPO Battery Checker

31067 TE | $4.95 ea

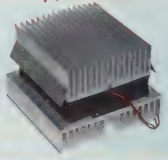


Thermoelectric Cooling Module 127 couple 12VDC

30207 PM | $4.98 ea

Peltier Cooling Assembly, 12VDCut

15312 PM | $29.95 ea



12Vdc 5 Meter Roll LEDs

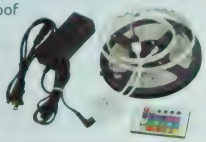
19434 OP | Cool White | $12.95 ea
33111 OP | Med. White | $12.95 ea
31362 OP | Red | $12.95 ea
19441 OP | Blue | $12.95 ea

Water proof IP65 PVC encapsulated roll with wire pigtails for connection.

5 Meter Roll RGB LED, Controller and Supply

31541 OP | $19.95 ea

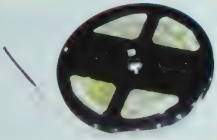
PVC encapsulated roll, controller not water proof with IR remote.



12VDC 5 Meter Cool White LED Roll

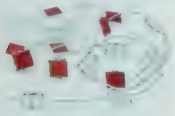
31192 OP | $9.95 ea

Indoor Only!



12VDC 72 Lumen Cool White 20 Module Strig

19438 OP | $14.95 ea

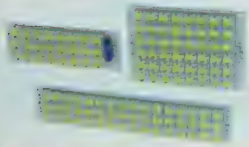


12VDC 36 Lumen Cool White 20 Module Strig

31366 OP | $12.95 ea

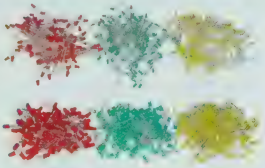
12VDC Cool White Piranah LED boards

32035 OP | 3 x 8 LEDs | $4.95 ea
33081 OP | 3 x 16 LEDs | $9.95 ea
33070 OP | 6 x 8 LEDs | $9.95 ea



Bulk Pack LEDs 100 per pack

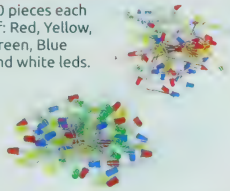
15101 OP | 3mm Red | $1.95 ea
15102 OP | 3mm Green | $1.95 ea
15103 OP | 3mm Yellow | $1.95 ea
15104 OP | 3mm Blue | $2.95 ea
15108 OP | 5mm Red | $1.95 ea
15307 OP | 5mm White | $2.95 ea
15308 OP | 5mm Green | $1.95 ea
15309 OP | 5mm Yellow | $1.95 ea
31363 OP | 5mm Blue | $3.95 ea



Assortment Pack LEDs 100 per pack

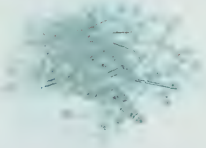
32674 OP | 3mm | $2.95 ea
32066 OP | 5mm | $2.95 ea

20 pieces each of: Red, Yellow, Green, Blue and white leds.



Flashing RGB 5mm LEDs Pack of 100

32889 OP | $4.95 ea



10 Segment LED Bargraph

32253 OP | Red | $1.75ea
32325 OP | Blue | $1.75ea
32326 OP | Green | $1.75ea
32327 OP | Yellow | $1.75ea

12VDC 5mm LED Lamps

30124 LA | Red | $0.75ea
30125 LA | Green | $0.75ea
30126 LA | Yellow | $0.75ea
30127 LA | Blue | $0.75ea
30128 LA | White | $0.75ea

10 Watt LEDs

31515 OP | Red | $3.95 ea
31516 OP | Green | $3.95 ea
31517 OP | Blue | $2.95 ea
31183 OP | Warm White | $2.95 ea
31518 OP | RGB | $3.95 ea

Requires heatsink and current control power supply!

High Lumen Cool White LEDs

31325 OP | 10 Watt | $2.95 ea
31326 OP | 20 Watt | $7.95 ea
31327 OP | 30 Watt | $9.95 ea

Requires heatsink and current control power supply!

10 Watt Infrared LEDs

32621 OP | 730nM | $22.95 ea
32622 OP | 850nM | $10.95 ea
32623 OP | 940nM | $9.95 ea

Requires heatsink and current control power supply!

10 Watt Ultraviolet LEDs

32614 OP | 365-367nM | $49.95 ea
32616 OP | 385-390nM | $14.95 ea
32617 OP | 395-400nM | $14.95 ea
32618 OP | 410-415nM | $10.95 ea
32619 OP | 420-430nM | $9.95 ea

Requires heatsink and current control power supply!

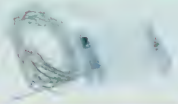
10mm Super Bright Cool White LED 15000mcd

15415 OP | $0.15 ea

Current limiting resistor required

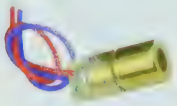
50 LEDs in a 5 Meter String

31985 OP | Cool White| $5.95ea
31986 OP | Red | $5.95ea
31987 OP | Blue | $5.95ea
31984 OP | RGB Flashing | $9.95ea



3VDC Mini LASER Head 635nm <5mw

19566 LZ | $2.25 ea

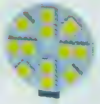


5VDC LASER Diode Red Crosshair Pattern <5mw

33029 LZ | $2.95 ea

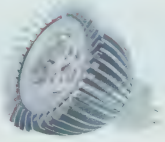
12VDC Bi-Pin G-4 LED Modules

33410 OP | Warm White | $1.95 ea
33411 OP | Cool White | $1.95 ea



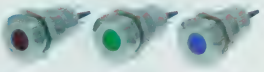
12V AC/DC 3Watt Cool White MR-16 LED

31975 OP | $3.95 ea



12V AC/DC LED Indicators

32750 LA | Red | $2.49 ea
32751 LA | Green | $2.49 ea
32752 LA | Blue | $2.49 ea



12V AC/DC 22mm LED Indicators

31087 LE | Red | $2.95 ea
31088 LE | Green | $2.95 ea
31089 LE | Yellow | $2.95 ea

12 Position Euro Block

32940 TS | 10Amp | $1.75 ea
32941 TS | 20Amp | $1.85 ea
32675 TS | 30Amp | $1.95 ea

Solid State Relay

31931 RL | 10 Amp | $5.95 ea
31932 RL | 25 Amp | $8.95 ea
31933 RL | 40 Amp | $10.95 ea

3-32VDC control voltage. 24-480VDC output voltage SPST-NO AC only

Threaded locking connector pair

32420 PL | 2 Pin | $1.95 ea
32421 PL | 3 Pin | $1.95 ea
32423 PL | 5 Pin | $1.95 ea
32426 PL | 8 Pin | $1.95 ea

Ul Hook-Up Wire

Handy spool of 100ft. General Purpose 300 Volt, 105Deg. "C", UL 1007/1569 Copper conductor Hook-up wire.

SOLID 22AWG WT: .4

STOCK #	DESC	1EA
32270-WI	Solid Red	$8.95
32271-WI	Solid Black	$8.95
32272-WI	Solid Yellow	$8.95
32273-WI	Solid Blue	$8.95
32274-WI	Solid White	$8.95
32275-WI	Solid Green	$8.95

STRANDED 22AWG WT: .4

STOCK #	DESC	1EA
32280-WI	Stranded Red	$8.95
32281-WI	Stranded Black	$8.95
32282-WI	Stranded Yellow	$8.95
32283-WI	Stranded Blue	$8.95
32284-WI	Stranded White	$8.95
32285-WI	Stranded Green	$8.95

STRANDED 18AWG WT: .8

STOCK #	DESC	1EA
32290-WI	Stranded Red	$12.95
32291-WI	Stranded Black	$12.95
32292-WI	Stranded Yellow	$12.95
32293-WI	Stranded Blue	$12.95
32294-WI	Stranded White	$12.95
32295-WI	Stranded Green	$12.95

PC Header & Socket Set

19590 TS | 2 Position | $0.79 ea
19591 TS | 3 Position | $0.99 ea

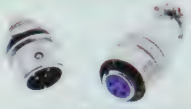
5.08mm spacing PC Mount Header pins and right angle screw clamp socket sold in sets

Heat Sink for Solid State Relay

32434 HK | $4.95 ea

Snap locking connector pair

32567 PL | 2 Pin | $2.89 ea
32568 PL | 3 Pin | $2.89 ea
32569 PL | 4 Pin | $2.89 ea
32570 PL | 5 Pin | $2.89 ea

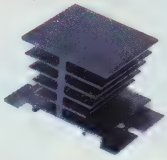


High Power Terminal Block 18522 TS | $1.25 ea

4 position, end stackable, P.C. mount, terminal blocks. Voltage: 1000V/Rated Current: 90A

Heat Sink for Solid State Relay

32052 HK | $3.95 ea



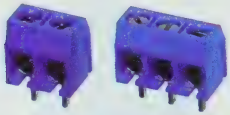
200Amp Binding Posts Red & Black Pair

32937 PL | $4.95 ea

PC Mount Terminal Strip

18318 TS | 2 Position | $0.39 ea
18319 TS | 3 Position | $0.49 ea

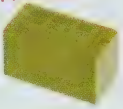
5mm spacing end stackable



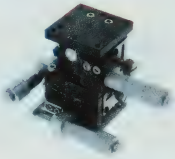
DPDT DIP Relay

32555 RL | 3VDC | $1.29 ea
32556 RL | 5VDC | $1.29 ea
32558 RL | 9VDC | $1.29 ea
32559 RL | 12VDC | $1.29 ea
32560 RL | 24VDC | $1.29 ea

HK19F Series DC relays contacts rated 1A/125VAC or 2A/30VDC



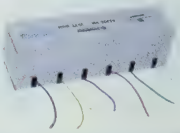
Adjustable 3 Axis Stage 33383 MI | $169.95 ea



Solid 22Awg hook Up Wire Set

32267 WI | $15.95 ea

6 colors 25' each spool



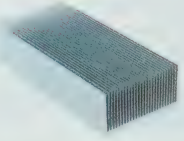
5.5mm Power Jacks

32104 PL | 5.5/2.1mm | $1.49 ea
32105 PL | 5.5/2.5mm | $1.49 ea

Metal Chassis mount connector with solder tabs

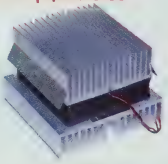
5-7/8" x 2-3/4" x 1-7/16" Aluminum Heat Sink

32088 HK | $12.95 ea



12VDC Cooling Module with Heatsinks

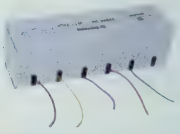
15312 PM | $29.95 ea



Stranded 22Awg hook Up Wire Set

32269 WI | $15.95 ea

6 colors 25' each spool



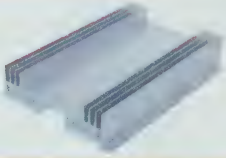
5.5mm Power Adaptors

19452 PL | 2.1mm Plug | $0.89 ea
19453 PL | 2.5mm Plug | $0.89 ea
19454 PL | 2.1mm Jack | $0.89 ea
19455 PL | 2.5mm Jack | $0.89 ea

Adapts wire leads to coaxial/barrel power connectors Screw terminals to 5.5mm O/D plugs and Jacks.

10" x 7" x 2" Aluminum Heat Sink

33305 HK | $19.95 ea



12VDC Thermoelectric Cooling Module

30207 PM | $4.98 ea

30AWG Wire Wrap Spools

33125 WI | Red | $7.95 ea
33126 WI | Black | $7.95 ea
33129 WI | Green | $7.95 ea

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THERMOCOOL AC FANS
UL/TUV/CE RoHS Compliant

A B C D E F G H I

STOCK#	FIG.	P/N	DIMN.	VOLTS/AMP	CFM	NOISE	BEARING	CONNECT	WT	1EA	12+EA
17771-FN	A	G8025HAS	3-1/8" SQ X 1"	125AC/.13	23	30	SLV.	WIRE	.6	$9.95	$8.95
17772-FN	B	G8038HAS	3-1/8" SQ X 1-1/2"	125AC/.14	28	33	SLV.	WIRE	.6	$14.95	$12.95
17773-FN	C	G9225HAS	3-5/8" SQ X 1"	125AC/.14	34	40	SLV.	TERM	.5	$9.95	$8.95
17774-FN	D	G12025HAS	4-11/16" SQ X 1"	125AC/.20	66	42	SLV.	TERM	.75	$9.95	$8.95
17775-FN	E	G12038HAS	4-11/16" SQ X 1-1/2"	125AC/.28	95	48	SLV.	TERM	1.1	$12.95	$10.95
17776-FN	E	G12038MAB	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	BALL	TERM	1	$15.95	$12.95
17777-FN	E	G12038MAS	4-11/16" SQ X 1-1/2"	125AC/.22	85	44	SLV.	TERM	1.1	$11.95	$9.95
17778-FN	F	G13538HAS	5-5/16" SQ X 1-1/2"	125AC/.34	122	53	SLV	WIRE	1.2	$14.95	$12.95
17779-FN	G	G15050HAS	6" SQ X 2"	125AC/.40	198	58	SLV	WIRE	1.9	$22.95	$19.95
17780-FN	H	G17050HASB	6-3/4" RND X 2"	125AC/.40	198	59	BALL	TERM	1.8	$22.95	$19.95
17781-FN	I	G17050HAST	6-3/4" X 6 X 2"	125AC/.40	198	59	BALL	TERM	1.9	$22.95	$19.95

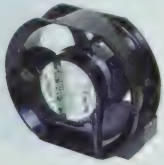
FAN GUARDS

PICTURES ARE REPRESENTIVE OF THE STYLE AND MAY NOT BE EXACT.

A B D E F G

STOCK#	FIG.	FAN SIZE	STYLE	MOUNTING	MAT.	FINISH	WT.	1EA.	10+EA
18383-FN	A	1-9/16"/40MM	OFFSET	4 CORNERS	STEEL	CHROME	.01	$0.99	$0.89
18384-FN	B	2-3/8"/60MM	OFFSET	4 CORNERS	STEEL	CHROME	.03	$0.99	$0.89
18386-FN	D	3-1/8"/80MM	OFFSET	4 CORNERS	STEEL	CHROME	.04	$1.25	$0.99
18387-FN	E	3-5/8"/90MM	OFFSET	4 CORNERS	STEEL	CHROME	.05	$1.25	$0.99
18388-FN	F	4-11/16"/120MM	OFFSET	4 CORNERS	STEEL	CHROME	.08	$1.39	$1.25
17815-FN	G	5" /127MM	OFFSET	4 CORNERS	STEEL	CHROME	.13	$1.29	$0.99

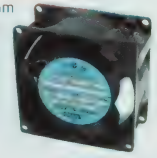
120VAC 6-3/4" Fan
31876 FN | $22.95 ea
172mm X 50mm X 150mm



120VAC 4-11/16" X 1-1/2"Fan
33012 FN | $8.95 ea
120mm X 38mm

120VAC 3-1/2" x 1-1/2"Fan
33010 FN | $7.95 ea
80mm X 38mm

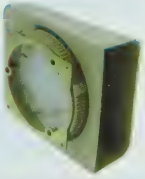
230VAC 3-1/2" X 1-1/2" Fan
33489 FN | $5.95 ea
80mm X 38mm



Plastic Guard & Filter
33403 FN | 80mm | $1.79 ea
33404 FN |120mm | $1.95 ea

Louvered Fan Guard with Dust Filter for 4-11/16" (120mm) Fan
33406 FN
$3.95 ea

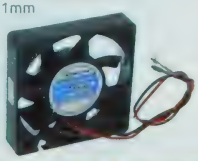
Cabinet Vent with Dust Filter and Bracket
33405 FN
$9.95 ea



4 plugs 27" Fan Cord
30347 FN | $1.95 ea

5Vdc 2-3/8" X 1"Fan
33704 FN | $2.95 ea
60mm X 25mm

5VDC 2" X 1/2"Fan
32820 FN | $1.95 ea
Removed from new equipment.
50mm X 11mm



5VDC 1-9/16" X 3/8"Fan
31854 FN | $2.95 ea
40mm X 10mm

5Vdc 1-9/16" X 1/2" Fan
31414 FN | $1.95 ea
40mm X 13mm

12VDC 2"X 3/8" T&T Fan 50mm X 10mm
12773 FN | $1.65 ea

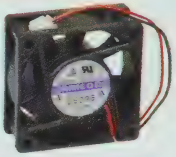
12VDC 1-1/2" X 1-1/8" Delta Fan 38mm X 28mm
33157 FN | $4.95 ea

12VDC 2-3/8" X 3/4" Delta Fan 60mm X 20mm
32786 FN | $2.95 ea

12VDC 2-3/8" X 1" Mitsubishi Fan 60mm X 25mm
19389 FN | $1.95 ea

12VDC 2-3/8" X 1" Boxer Fan 60mm X 25mm
33482 FN | $2.95 ea

12VDC, 2-3/8" X 1" Jamicon Fan 60mm X 25mm
17526 FN | $2.95 ea



12VDC 2-3/4" X 3/4" AVC Fan 70mm X 20mm
32788 FN | $2.95 ea

12VDC 3-1/8" X 1" NMB Fan 80mm X 25mm
32685 FN | $5.95 ea

12VDC, 3-1/8" X 1" Delta Fan 80mm X 25mm
18842 FN | $4.95 ea

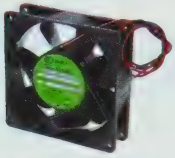
With IDE Power Connector

12VDC 3-1/8" X 1" NMB Fan 80mm X 25mm
33480 FN | $2.49 ea

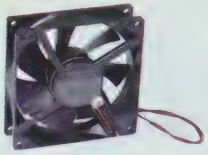
12VDC 3-1/8" X 1" Box NMB Fan 80mm X 25mm
33820 FN | $2.95 ea

12VDC 3-5/8" X 11/16" Fan 92mm X 25mm
19387 FN | $5.95 ea

12VDC 3-5/8" X 1" NMB Fan 90mm X 25mm
33484 FN | $1.49 ea



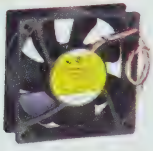
12VDC 3-5/8" X 1" Panaflo Fan 90mm X 25mm
19238 FN | $1.95 ea



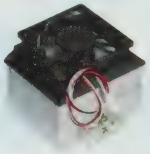
12VDC 4-11/16" X 1" Sunon Fan 120mm X 25mm
32610 FN | $4.95 ea

12VDC 4-11/16" X 1" Sunon Fan 120mm X 25mm
31203 FN | $4.95 ea

12VDC 4-11/16" X 1-1/2" Fan 120mm X 38mm
18222 FN | $4.95 ea

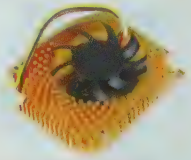


12VDC Fan & Heatsink
17045 HK | $4.95 ea
60mm X 80mm X 64mm



12VDC Fan & Heatsink
33477 HK | $19.95 ea
50mm X 50mm X 30mm

12VDC Fan & Heatsink
31838 HK | $3.95 ea
60mm X 68mm X 12mm

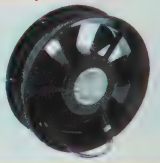


24VDC 1-9/16" X 3/4" Sunon Fan 40mm X 20mm
33785 FN | $3.95 ea

24VDC 2-3/8" X 13/16" Fan Globe 60mm X 20mm
33483 FN | $1.95 ea

24VDC 4-11/16" X 1" Fan 125mm X 25mm
32921 FN | $5.95 ea

24VDC, 6-3/4"X 2" Axial Fan 171mm X 51mm
33259 FN | $24.95 ea



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Solderless Breadboards

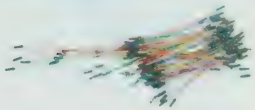
A B C E F G

White ABS plastic body (except G clear), B, C & E come with metal mounting base. Nickel plated phosphor bronze contacts. Contact resistance less than 1 milliohm @ 1kHz. Tested for over 10,000 cycles. Snap lock molded dovetail for combining multiple boards, Suitable for 19-29 AWG wire & all DIP size components. Please visit our web site for more detailed information.

STOCK #	FIG.	DESC.	SIZE L X W	WT.	1EA	10+EA
24443-TE	A	830 point	6-1/2" X 2-1/8"	.3	$4.95	$3.95
24444-TE	B	830 point 3 Binding Post and Jumper Kit	7-7/8" X 4-1/8"	.8	$9.95	$8.95
24445-TE	C	1660 point 3 Binding Post and Jumper Kit	8-3/8" X 5-1/8"	.9	$12.95	$11.49
24447-TE	E	3220 point 4 Binding Post and Jumper Kit	10-3/8" X 9-1/8"	2	$22.95	$19.49
27027-TE	F	140 Piece 22 AWG Jumper Wire Kit		.3	$3.95	$3.49
18103-TE	G	830 point Clear ABS Body	6-1/2" X 2-1/8"	.3	$4.95	$3.95

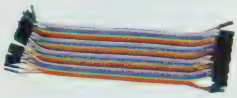
65 Piece Breadboard Jumper Pin Set

30116 PL | $3.95 ea



40pc Header Jumper

30117 PL | F to F | $3.95 ea
31217 PL | M to M | $4.95 ea
31218 PL | M to F | $2.72 ea
M = Male F = Female



Powered Breadboard

32920 TE | $99.95 ea

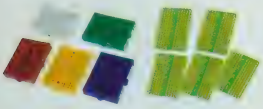
Powered Breadboard

30176 TE | $10.95 ea

Proto Board Special

33353 MI | $6.95 ea

5 pieces of 170 tie point breadboard and 5 pieces of 170 tie point proto board for one low price.

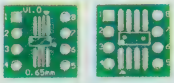


230 Tie Point Mini Solderless Breadboard, Unmounted

18862 TE | $2.95 ea

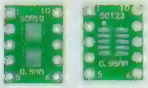
8 Pin SOP Adapter Board Double Sided

31456 PB | $0.59 ea



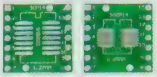
10 Pin SOP Adapter Board Double Sided

31457 PB | $0.59 ea



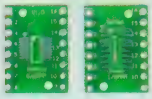
14 Pin SOP Adapter Board Double Sided

31864 PB | $0.69 ea



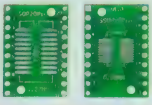
16 Pin SOP Adapter Board Double Sided

31459 PB | $0.69 ea



20 Pin SOP Adapter Board Double Sided

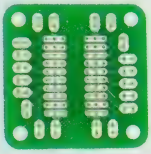
31460 PB | $0.69 ea



20 pin IC Proto Board

32540 PB | $1.00 ea

Single Sided .062" phenolic board, .1" pad spacing



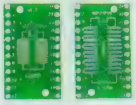
Proto Board

32891 PB | 170 holes | $1.00 ea
32892 PB | 276 holes | $1.95 ea
32893 PB | 830 holes | $4.95 ea

Based on the breadboard pattern

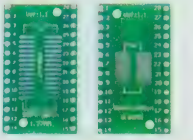
24 Pin SOP Adapter Board Double Sided

31461 PB | $0.99 ea



28 Pin SOP Adapter Board Double Sided

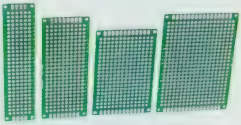
31462 PB | $0.99 ea



ProtoBoard Set of 4

32065 PB | $2.95 set

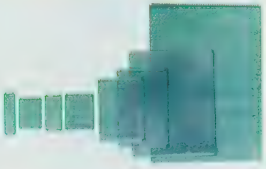
FR-4 boards with 0.1" spacing. One each of thr following: 30123 PB, 31091 PB, 31169 PB and 31253 PB.



FR-4 Proto Board

Doudle sided, .1" pad spacing, Plated thru copper pads. Sold Individually

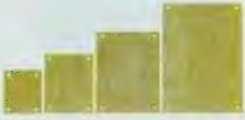
30123 PB | 2cm X 8cm | $0.99 ea
31091 PB | 4cm X 6cm | $1.29 ea
31253 PB | 3cm X 7cm | $1.19 ea
31169 PB | 5cm X 7cm | $1.79 ea
32011 PB | 8cm X 12cm | $4.95 ea
32012 PB | 9cm X 15cm | $5.95 ea
32013 PB | 15cm X 20cm | $9.95 ea
32014 PB | 20cm X 30cm | $19.95 ea



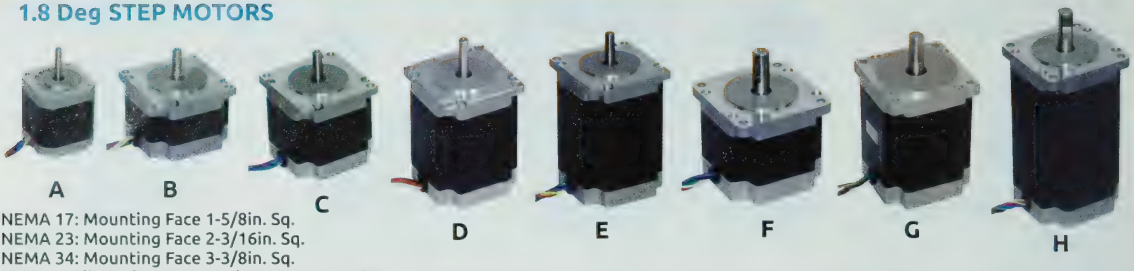
Phenolic Proto Board

Single sided, .1" pad spacing, unplated copper pads. Sold Individually

15918 PB | 44mm X 39mm | $0.59 ea
16227 PB | 60mm X 50mm | $0.79 ea
15914 PB | 82mm X 64mm | $1.10 ea
15912 PB | 110mm X 80mm | $1.75 ea



1.8 Deg STEP MOTORS

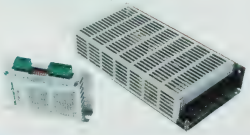


NEMA 17: Mounting Face 1-5/8in. Sq.
NEMA 23: Mounting Face 2-3/16in. Sq.
NEMA 34: Mounting Face 3-3/8in. Sq.
Note: * Indicated Step Motor has a DUAL SHAFT.
Additional Information Avaliable On our website

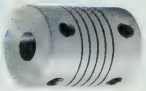
STOCK #	FIG.	NEMA	VDC	A	W	HLD. TORQ.	P/N	TYPE	LENGTH (BODY)	SHAFT	WT.	1EA
18735-MS	A	17	5.2V	.5	10.5	1.5Kg/cm	42BHH34-050A-18	6 lead	1-3/8"	5 X 17mm	.5	$9.95
18733-MS	A	17	12V	.31	38	1.6Kg/cm	42BHH34-031A-18G	6 lead	1-3/8"	5 X 17mm/flat	.5	$9.95
17453-MS	A	17	5.2V	1	5.2	3.2Kg/cm	42BHH48-100E-24	6 lead	2"	5 X 22mm	.84	$15.95
18734-MS	A	17	12V	.4	30	3.2Kg/cm	42BHH48W-040B-24	6 lead	1-7/8"	5 X 22mm	.76	$10.95
18686-MS	B	23	2.8V	2	1.4	4.2Kg/cm	57BHH41-200B-21	6 lead	1-5/8"	6.35 X19mm	1	$17.95
17454-MS	B	23	24V	.34	71	4.4Kg/cm	57BHH41-034A-21	6 lead	1-5/8"	6.35 X19mm	1	$17.95
17455-MS	C	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21N	6 lead	2-3/8"	6.35 X19mm	1.6	$14.95
18728-MS	C*	23	6.2V	1	6.2	9Kg/cm	57BHH56-10D-21DH	6 lead	2-3/8"	6.35 X20mm/Dual	1.6	$15.95
18189-MS	D	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-25C	6 lead	3" "	6.35 X25mm	2.3	$23.95
18729-MS	D*	23	5.7V	2.3	2.5	16Kg/cm	57BHH76-200B-26DA	6 lead	3"	6.35 X24mm/Dual	2.4	$23.95
18687-MS	D	23	4.5V	2.5	1.8	18Kg/cm	57BHH76-250E-21G	6 lead	3"	6.35 X25mm	3.4	$24.95
17456-MS	E	23	3.6V	3	1.2	21Kg/cm	57BHH82-300E-21U	6 lead	3-1/4"	6.35 X19mm	2.6	$34.95
17458-MS	F	34	3.0V	3	1	23Kg/cm	86BHH76-400C-35	6 lead	3"	13 X35mm	4.7	$54.95
18190-MS	G	34	6.0VDC	2	3	48Kg/cm	86BHH114-200C-37BS	8 lead	4-17/32"	13 X35mm	8.1	$68.00
17457-MS	H	34	7.8VDC	2	3.9	63Kg/cm	86BHH150-200A-37BS	8 lead	6"	13 X35mm	11	$79.95

3A Step Motor Driver
31306 MS | $14.95 ea

1.5A Step Motor Driver
18187 MS | $54.90 ea
Free Power Supply

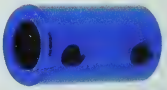


Flexible Helical Cut Coupler

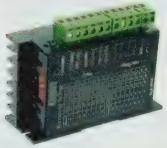


33600 HD | 3mm to 4mm | $3.95 ea
33601 HD | 3mm to 6mm | $3.95 ea
33602 HD | 3mm to 1/4" | $3.95 ea
33603 HD | 4mm to 5mm | $3.95 ea
33604 HD | 4mm to 6mm | $3.95 ea
33605 HD | 4mm to 1/4" | $3.95 ea
33606 HD | 4mm to 8mm | $3.95 ea
33607 HD | 4mm to 10mm | $3.95 ea
33608 HD | 5mm to 6mm | $3.95 ea
33609 HD | 5mm to 1/4" | $3.95 ea
33610 HD | 5mm to 8mm | $3.95 ea
33611 HD | 6mm to 6mm | $3.95 ea
33612 HD | 6mm to 1/4" | $3.95 ea
33613 HD | 6mm to 8mm | $3.95 ea
33614 HD | 6mm to 10mm | $3.95 ea
33615 HD | 1/4" to1/4" | $3.95 ea
33617 HD | 1/4" to 8mm | $3.95 ea
33619 HD | 7mm to 7mm | $3.95 ea
33620 HD | 7mm to 8mm | $3.95 ea
33621 HD | 8mm to 8mm | $3.95 ea
33622 HD | 8mm to 10mm | $3.95 ea
33623 HD | 10mm to 10mm | $3.95 ea

Rigid Shaft Coupler
33557 HD | 5mm to 5mm | $2.95 ea
33560 HD | 5mm to 8mm | $2.95 ea



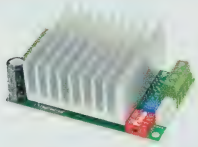
3.5A Step Motor Driver
32383 MS | $19.95 ea



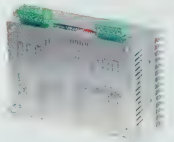
AC Powered Step Motor Driver 18727 MS | $169.95 ea

300mm Leadscrew Step Motor
33515 MS | $29.95 ea

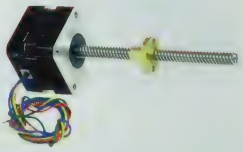
4A Step Motor Driver
32381 MS | $17.95 ea



6A Step Motor Driver
18188 MS | $96.00 ea

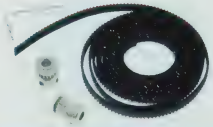


100mm Leadscrew Step Motor
31564 MS | $29.95 ea

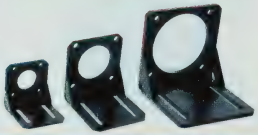


5A Step Motor Driver
17452 MS | $49.95 ea

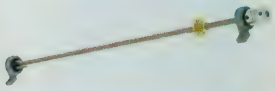
Linear Drive Belt Kit
32387 MI | $8.95 ea



Step Motor Bracket
32431 MS | Nema 17 | $4.95 ea
32379 MS | Nema 23 | $4.95 ea
32432 MS | Nema 34 | $8.95 ea

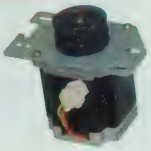


350mm Leadscrew Kit
32396 HD | $19.95 ea



2.7V 1.8 Deg NEMA 23 Step Motor
30460 MS | $7.95 ea
4 Wire Leads

3V 1.8 Deg NEMA 23 Step Motor
17153 MS | $14.95 ea
4 Wire Leads



9V 1.8 Deg NEMA 23 Step Motor
32493 MS | $12.95 ea
4 Wire Leads

3V 1.8 Deg NEMA 23 Step Motor
18854 MS | $14.95 ea
6 Wire Leads

2.5V 1.8 Deg NEMA 23 Step Motor
31394 MS | $8.95 ea
6 Wire Leads

5.3V 1.8 Deg NEMA 23 Gear Head Step Motor
17461 MS
$14.95 ea
5 Wire Leads

USED 24V 1.8 Deg NEMA 23 Step Motor
15837 MS | $8.95 ea
5 Wire Leads

3.84V 1.8 Deg NEMA 23 Step Motor
17607 MS | $9.95 ea
5 Wire Leads

10.4V 1.8 Deg NEMA 17 Step Motor
33449 MS | $10.95 ea
4 Wire Leads with motor bracket and 8mm coupler

10.4V 1.8 Deg NEMA 17 Step Motor
33448 MS | $10.95 ea
4 Wire Leads with motor bracket and 1/4" coupler

10.4V 1.8 Deg NEMA 17 Step Motor
33358 MS | $12.95 ea
4 Wire Leads with COG belt and gear set.

10.4V 1.8 Deg NEMA 17 Step Motor
33356 MS | $7.95 ea
4 Wire Leads

3.5V 3.75 Deg NEMA 17 Step Motor
32101 MS | $5.95 ea
4 Wire Leads

5V Leadscrew Micro Step Motor
32378 MS | $1.95 ea
4 P.C. Mount Leads

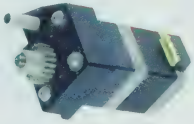
12V 1.8 Deg NEMA 14 Step Motor
18688 MS | $13.75 ea
6 Wire Leads

12V 1.8 Deg NEMA 14 Step Motor
18689 MS | $13.75 ea
4 Wire Leads

24V 3.6 Deg NEMA 17 Step Motor
24318 MS | $4.95 ea
5 Wire Leads

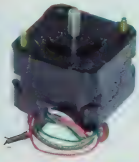
56V Gearhead Step Motor
18891 MS | $14.95 ea
4 Wire Leads

2.66V .1 Deg NEMA 11 Step Motor
31129 MS | $9.95 ea
6 Wire Leads



1.8 Deg NEMA 17 Step Motor
19533 MS | $9.95 ea
4 Wire Leads

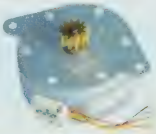
24V 3.6 Deg NEMA 17 Step Motor
18885 MS | $1.95 ea
5 Wire Leads



12V 3.75 Deg Step Motor
31393 MS | $1.95 ea
4 Wire Leads

USED 3V 7.5 Deg Step Motor
30231 MS | $2.95 ea
6 Wire Leads

24V 7.5 Deg Step Motor
18368 MS | $1.95 ea
5 Wire Leads



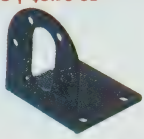
12VDC Gear Motor

37 mm dia X 51mm long motor plus 6mm dia. X 14mm shaft, bronze bearings. Six M3x0.5 mounting holes in front. Solder terminals

32203 MD | 5 RPM | $12.95 ea
32204 MD | 30 RPM| $12.95 ea
32205 MD | 50 RPM | $12.95 ea
32206 MD| 100RPM | $12.95 ea

37mm Motor Bracket

33574 MD | $3.95 ea



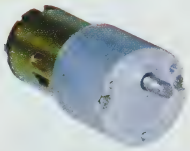
12VDC Gear Motor

17 mm dia X 45mm long motor plus 3mm dia. X 8mm shaft, bronze bearings. Two M2x0.4 mounting holes in front. Solder terminals

32208 MD | 25 RPM | $12.95 ea
32209 MD | 55 RPM | $12.95 ea

12VDC 6.8 RPM Gear Head Motor

15870 MD | $12.95 ea



1.5-3VDC Micro Vibrator Motor

32514 MD | $1.95 ea

3VDC Flat Vibrator Motor 32115 MD | $1.95 ea

3-6VDC Motor & Tire

32064 MD | $3.95 ea

12VDC ACME Gear Motor 32575 MD | $19.95 ea

MG995 Servo Motor

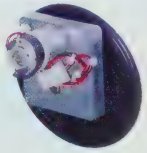
31150 MP | $7.95 ea

SG90 Servo Motor

31002 MD | $5.95 ea

USED 24VDC 45 RPM Gear Head Motor with Wheel

17971 MD
$9.95 ea



USED 24VDC 45 RPM Gear Head Motor

32172 MD | $9.95 ea

24VDC Leadscrew Gear Head Motor

32681 MD | $19.95 ea

24VDC Gear Head Motor

32684 MD | $19.95 ea

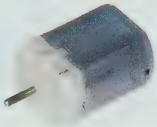
36VDC Gear Head Motor 31474 MD | $12.95 ea

12VDC 7000 RPM Mini Motor

32417 MD | $12.95 ea

8-16VDC Mini Motor

18298 MD | $0.99 ea

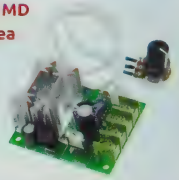


Motor Speed Control with Display

32673 MD
$14.95 ea

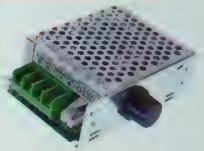
6-24VDC 20Amp Max Motor Speed Control

31566 MD
$8.95 ea



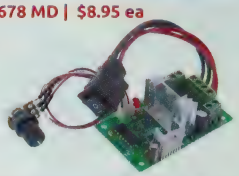
12-80VDC 20Amp Max Motor Speed Control

33377 MD | $15.95 ea



Motor Speed Control with Reversing Switch

32678 MD | $8.95 ea

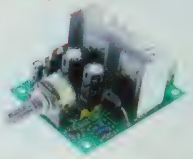


6VDC Gear Head Motor

32176 MD | $34.95 ea

6.5-20VDC 10Amp Max Motor Speed Control

33371 MD | $8.95 ea



6-28VDC 2Amp Max Motor Speed Control with Memory

32826 MD
$4.95 ea

Die Cast Aluminum Boxes

Aluminum alloy with cover & M3.5 stainless steel screws included. Internal guides on ends & sides for holding PC boards. Natural Bare Aluminum Finish. Listed below are the outside dimensions.

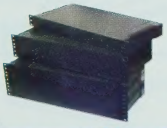
STOCK #	L"	W"	H"	WT.	1EA
16281 BX	2.36"	2.17"	1.18"	.18	$3.60
16282 BX	3.15"	2.17"	0.98"	.2	$3.90
16283 BX	3.50"	1.37"	1.18"	.16	$3.54
16284 BX	4.49"	2.52"	1.18"	.28	$5.34
16285 BX	4.49"	2.52"	2.17"	.36	$6.54
16286 BX	4.49"	3.50"	2.17"	.50	$8.01
16287 BX	4.72"	3.94"	1.38"	.56	$7.77
16288 BX	5.51"	3.94"	2.95"	.86	$11.22
16289 BX	6.50"	5.00"	2.95"	1.12	$14.79
16290 BX	6.73"	4.76"	2.17"	.96	$13.41
16291 BX	6.73"	4.76"	4.17"	1.40	$16.62
16292 BX	8.74"	5.75"	2.17"	1.44	$17.91
16293 BX	8.74"	5.75"	4.17"	2.80	$24.27
16294 BX	9.84"	9.84"	3.94"	3.50	$44.88
16295 BX	10.83"	6.89"	2.56"	2.08	$26.91

Sealed Plastic Boxes

Gray ABS plastic project boxes with lids. Tongue & grove sealing meet IP-65 & NEMA 4 requirements. 4 standoffs on base for holding PC boards. Includes stainless cover screws & neoprene gasket material. 17391, 17400-17407 NO Internal Guides
Listed below are the outside dimensions.

STOCK #	L"	W"	H"	WT.	1EA
17392 BX	4.53"	3.54"	2.17"	.35	$6.95
17393 BX	6.73"	4.76"	2.17"	.54	$9.95
17395 BX	6.73"	4.76"	3.15"	.73	$10.95
17396 BX	7.68"	3.15"	2.17"	.49	$7.95
17398 BX	10.43"	7.28"	3.74"	1.5	$19.95
17399 BX	2.05"	1.97"	1.38"	.09	$3.95
17402 BX	7.87"	4.72"	2.95"	.8	$11.95
17405 BX	9.45"	6.3"	4.72"	1.5	$19.95
17406 BX	11.81"	9.06"	4.37"	2.4	$32.95
17407 BX	14.17"	7.87"	5.91"	3.1	$29.95

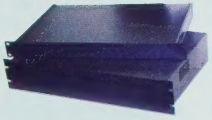
19" Plastic Rack Mount Cabinets



Black plastic rack mount clamshell cases. Vented sides with removable front & rear panels. Internal standoffs on top & bottom. Assembly required. **NOTE: Not Available For Air Shipments. Measurements below are for Internal Space**

STOCK #	DESC	W"	D"	H"	WT.	1EA
17086 BX	1U	16-3/16"	7-11/16"	1"	1.9	$19.95
17087 BX	2U	16-3/16"	7-11/16"	2-7/8"	2.5	$29.95
17088 BX	3U	16-3/16"	7-11/16"	4-1/2"	3.0	$39.95

19" Metal Rack Mount Cabinets



19in. rack mount cases. 1/8in. Aluminum Front Panel with steel chassis & covers. Satin black textured paint. **NOTE: Not Available For Air Shipments**

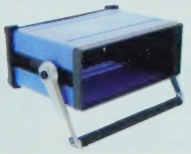
STOCK #	DESC	W"	D"	H"	WT.	1EA
17811 BX	1U	19"	11.8"	1.75"	1.9	$34.95
17812 BX	2U	19"	11.9"	3.5"	2.5	$39.95

Rubber Feet

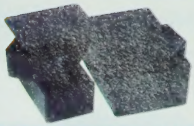
31471 BU | $3.50 ea

3M P/N SJ6316 peel-n-stick rubber feet. Sheet of 24 Gray bumpers 7/8" in diameter X 3/8"tall. Ideal as shock absorbers, equip. feet

Desktop Instrument Case 33008 BX | $89.00 ea



Plastic Project Cabinets



Black plastic project boxes with **flat lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws. Note: **15881-BX has NO Internal Guides.**
Outside dimensions are listed below.

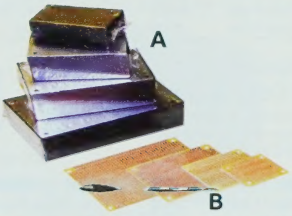
STOCK #	L"	W"	H"	WT.	1EA
15522 BX	3"	2"	1.16"	.07	$1.95
15523 BX	4"	3"	1.6"	.13	$2.49
15881 BX	4.41"	2.24"	.87"	.08	$1.95
15518 BX	5"	2.5"	1.75"	.17	$2.95
32652 BX	5.9"	3.9"	2.36"	.27	$3.49
15883 BX	7.25"	4.5"	2.52"	.50	$5.49

Plastic Project Cabinets

Black plastic project boxes with **deep lids**. Internal guides on ends & sides for holding PC boards. Includes cover screws.
Outside dimensions are listed below.

STOCK #	L"	W"	H"	WT.	1EA
15885 BX	3.74"	1.89"	1.46"	.11	$2.95
15886 BX	4.53"	2.36"	1.73"	.15	$3.49
15520 BX	5.3"	3"	1.9"	.25	$3.95
15887 BX	6.3"	3.74"	2.44"	.33	$3.95
15888 BX	7.6"	4.53"	2.95"	.45	$7.95
15521 BX	8.8"	5.5"	3.6"	.75	$7.95

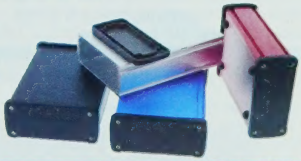
Plastic Project Cabinets & Perf Boards



Black plastic project boxes with Aluminum lids. Internal posts for holding PC boards. Includes cover & PC board screws. Solderable phenolic Perf. Board has .1" hole grid pattern, copper one side. All dimensions are aprox.

STOCK #	FIG.	SIZE	L"	W"	D/T"	WT.	1EA
15911 BX	A	Large	5-1/4"	3-1/4"	1-9/16"	.22	$4.95
15912 PB	B	Large	4-5/16"	3-1/8"	1/16"	.04	$1.75
15913 BX	A	Medium	4-1/8"	2-5/8"	1-9/16"	.15	$3.50
15914 PB	B	Medium	3-1/8"	2-1/2"	1/16"	.02	$1.10
15915 BX	A	Small	3-5/16"	2-1/8"	1-3/8"	.11	$2.75
16227 PB	B	Small	2-5/16"	1-15/16"	1/16"	.02	$0.79
15917 BX	A	Mini	2-11/16"	1-11/16"	1-3/16"	.08	$2.50
15918 PB	B	Mini	1-3/4"	1-1/2"	1/16"	.009	$0.59

Extruded Aluminum Enclosures



Extruded anodized 6063 aluminum instrument cases with black powder coated, cast aluminum end caps. Internal slots for holding PC board(s), 4 peel-n-stick rubber feet & stainless End Cap screws, IP66 rated when using the accessory Gaskets (sold separately) View Online additional accessories.

STOCK #	COLOR	L"	W"	H"	1EA
32740 BX	Silver	7-3/4"	4-9/16"	2"	$19.95
32741 BX	Red	7-3/4"	4-9/16"	2"	$19.95
32742 BX	Blue	7-3/4"	4-9/16"	2"	$19.95
32743 BX	Black	7-3/4"	4-9/16"	2"	$19.95

9.3" X 6.2" X 3.5" Waterproof Case

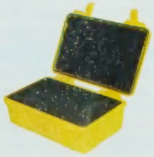
17813 BX

$17.95 ea

12" X 7.4" X 4.4" Waterproof Case

18351 BX

$29.95 ea



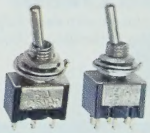
Mini Toggle Switch

Mini toggle switch, Mounts in a 1/4" hole.
Solder tab terminals.
Rated 6 Amps @ 125VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA
31880-SW	SPST	On-Off	$0.75
31881-SW	SPDT	On-On	$0.35
31883-SW	SPDT	On-Off-On	$0.38
31884-SW	SPDT	(Mom)-Off-(Mom)	$0.58
31886-SW	DPDT	On-On	$0.41
31888-SW	DPDT	On-Off-On	$0.46
31890-SW	DPDT	(Mom)-Off-(Mom)	$0.69

Mini Toggle Switch



Mini toggle switch, Mounts in a 1/4" hole. Solder tab terminals.
Rated 5 Amps @ 125VAC.

WT: .02

STOCK #	STYLE	DESC.	1EA
16071-SW	SPDT	On-(Mom)	$0.58
16072-SW	SPDT	On-Off-(Mom)	$0.58
16073-SW	DPDT	On- (Mom)	$0.69
16074-SW	DPDT	On-Off-(Mom)	$0.69
16075-SW	3PDT	On-On	$0.74
16076-SW	3PDT	On-Off-On	$0.88
16077-SW	4PDT	On-On	$1.42
16078-SW	4PDT	On-Off-On	$1.75

SUB-MINI TOGGLE SWITCH

Sub-Mini toggle switch, Mounts in a 1/8" hole with Solder tabs. Rated 1 Amps @ 250VAC. TUV Listed

WT: .02

STOCK #	STYLE	DESC.	1EA
18677-SW	SPDT	On-None-On	$0.43
18175-SW	DPDT	On-None-On	$0.52
18676-SW	DPDT	On-Off-On	$0.72

Lighted Pushbutton Switch

Momentary or Alternate Action (Push ON-Push-OFF), SPDT, Full size, metal body, Pushbutton switch with LED lighted Ring around Button. Mounts in a 3/4" hole.

Dia: 7/8" **Mtg.:** 3/4" hole **L:** 1-1/2"O/A **WT:** .04

STOCK #	DESC.	1EA
31370-SW	Red Momentary Switch	$4.95
31371-SW	Green Momentary Switch	$4.95
31372-SW	Blue Momentary Switch	$4.95
31375-SW	Red Alternate Action Switch	$5.95
31376-SW	Green Alternate Action Switch	$5.95
31377-SW	Blue Alternate Action Switch	$5.95

Pushbutton Switch

IP-67 rated, CMP #MP19S-F10, Flat Button, Metal Body, SPST-NO, Pushbutton switch. Mounts in a 3/4" hole.

Dia: 7/8" **Mtg.:** 3/4" hole **L:** 1-1/16"O/A **WT:** .04

STOCK #	DESC.	1EA
32091-SW	Red Momentary P/B Switch	$4.95
32092-SW	Green Momentary P/B Switch	$4.95
32093-SW	Blue Momentary P/B Switch	$4.95
32094-SW	Gold Momentary P/B Switch	$4.95
32095-SW	Black Momentary P/B Switch	$4.95

Full Size 15A Toggle Switch

.25"Quick Connect terminals.

Standard size toggle switch, Mounts in a 15/32" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC.

WT: .03

STOCK #	STYLE	DESC.	1EA
18371-SW	SPDT	On-None-On	$1.95
18372-SW	SPDT	(Mom)-Off-(Mom)	$1.95
18373-SW	DPDT	On-None-On	$1.95
18374-SW	DPDT	On-Off-On	$1.95
18375-SW	DPDT	(Mom)-Off-(Mom)	$1.95

Full Size 15A Toggle Switch

Standard size toggle switches, Mounts in a 1/2" hole. Rated: 10 Amps @ 250VAC. 15A @125VAC. Screw terminals.

WT: .08

STOCK #	STYLE	DESC.	1EA
16081-SW	SPDT	On-None-On	$0.88
16082-SW	SPDT	On-Off-On	$0.95
16083-SW	SPDT	On-None-(Mom)	$1.05
16084-SW	SPDT	On-Off-(Mom)	$1.05
16085-SW	SPDT	(Mom)-Off-(Mom)	$1.05
16086-SW	DPDT	On-None-On	$1.24
16087-SW	DPDT	On-Off-On	$1.24
16088-SW	DPDT	On-None-(Mom)	$1.49
16089-SW	DPDT	On-Off-(Mom)	$1.49
16090-SW	DPDT	(Mom)-Off-(Mom)	$1.49

Heavy Duty 20A Toggle Switches

Standard size toggle switches, Mounts in a 1/2" hole. Rated: 15 Amps @ 250VAC. 20A @125VAC. Screw terminals.

WT: .03

STOCK #	STYLE	DESC.	1EA
12216-SW	SPST	On-Off	$1.50
12217-SW	SPDT	On-On	$1.50
12218-SW	SPDT	On-Off-On	$1.60
12219-SW	DPST	On-Off	$1.95
12221-SW	DPDT	On-Off-On	$2.50

Misc. Toggle Switches

25001-SW 25002-SW 12223-SW

Full size toggle switch, Amp Ratings are @ 125VAC. 5001: Wire leads 5002: Solder tab 5004 & 12223: Screw

Mtg. Hole: 1/2 hole **WT:** .07

STOCK #	STYLE	DESC.	AMP	1EA
25002-SW	SPST	On-None-Off	4	$0.75
25001-SW	SPST	On-None-Off	6	$1.25
12223-SW	SPST	On-None-Off	10	$1.25

Full Size Toggle Safety Covers

Plastic, Snap action safety covers for standard (1/2" Dia.) sized toggle switches. Cover must be opened to activate switch. Closing cover forces switch to original position.

WT: .03

STOCK #	DESC.	1EA
16100-SW	Red Safety Cover	$0.69
16105-SW	Black Safety Cover	$0.69
16106-SW	Clear Safety Cover	$0.69
16108-SW	Transp. Red Safety Cover	$0.69

Push Button Switch

SPST Mounts in a 1/4" hole
N.O. = Normally open
N.C. = Normally closed

25019 SW | N.O. Red | $0.29 ea
25020 SW | N.C. Black | $0.29 ea

Push Button Switch

16093 SW | $2.02 ea

SPST Normally open
Mounts in a 3/4" hole.
Metal Face.

Foot Switch

18150 SW | $5.95 ea

SPST Normally open Metal petal with 1 meter pigtail.

Metal X-Y Keypad

32340 SW
$4.95 ea

3 X 4 pad with X-Y matrix

X-Y Key Pads

31045 SW | 3x4 pad | $2.95 ea
31046 SW | 4x4 pad | $2.95 ea

Peel and stick keypad with bubble type buttons

Plastic Float Switch

30453 SW
$3.95 ea

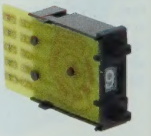
SP5T Rotary Switch

32597 SW | $0.99 ea

Single pole
5 positions

BCD Thumb Switch

32083 SW | $0.75 ea



0-9 push button BCD switch.
End plates avaiable on-line.

Multi Function AC LCD Panel Meter

32409 ME | $19.95 ea

260VAC 20A with internal CT. Volt, Current, Power and Energy Display

Multi Function AC LCD Panel Meter

32403 ME | $24.95 ea

260VAC 100A with external CT. Volt, Current, Power and Energy Display

Multi Function AC LED Panel Meter

32404 ME | $24.95 ea

260VAC 100A with external CT. Power, Energy, Voltage and Current Display

Dual Display AC LED Panel Meter

33152 ME | $14.95 ea

300VAC 50A with external CT. Voltage and Current Display

Dual Display AC LED Panel Meter

30301 ME | $19.95 ea

300VAC 100A with external CT. Voltage and Current Display

Dual Display AC LED Panel Meter

32710 ME | $19.95 ea

300VAC 200A with external CT. Voltage and Current Display

3 Digit 60-300VAC LED Panel Meter

30220 ME | Red | $6.95 ea
31493 ME | Green | $6.95 ea
31494 ME | Blue | $6.95 ea

Snap-in self LED powered meter 1Volt resolution 0.56" Character height 6" wire leads sine wave only!

Dual Display AC LED Panel Meter

33407 ME | $22.95 ea

Din Rail Mount 300VAC 100A with internal CT. Voltage and Current Display

Multi Function AC LED Panel Meter

31567 ME | $19.95 ea

600VAC 100A with external CT. Voltage, Current and Frequency Display Requires external 12VDC power source

Dual Display AC LCD Panel Meter

31496 ME | $17.95 ea

300VAC 100A with external CT. Voltage and Current Display

10-199Hz Frequency AC LCD Panel Meter

32406 ME | $14.95 ea

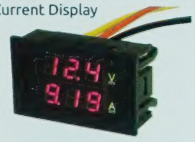
12VDC LED Panel Meter with Bar Graph

32322 ME | $12.95 ea

Dual Display DC LED Panel Meter

30303 ME | $12.95 ea

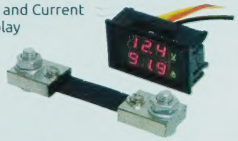
4.5-30VDC 10A with internal Shunt. Volt and Current Display



Dual Display DC LED Panel Meter

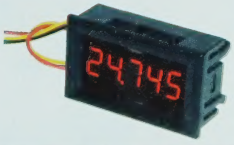
32063 ME | $17.95 ea

4.5-30VDC 100A with external Shunt. Volt and Current Display



3.5-30VDC 5 Digit Panel Meter

32711 ME | $12.95 ea



Multi Function DC LCD Panel Meter

32541 ME | $17.95 ea

100VDC 20A with internal Shunt. Volt, Current, Power and Energy Display

Multi Function DC LCD Panel Meter

32542 ME | $18.95 ea

100VDC 100A with external Shunt. Volt, Current, Power and Energy Display

Mini 3 Digit 4.5-30VDC LED Panel Meter

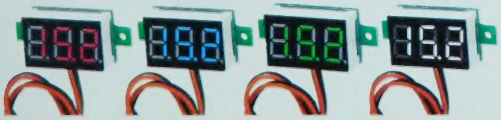
33065 ME | Red | $5.95 ea
33066 ME | Green | $6.95 ea
33067 ME | Blue | $6.95 ea

LED self powered meter 0.1/.01 Volt resolution auto range 0.56" Character height 5" wire leads. With Bezel.

Mini 3 Digit 4.5-30VDC LED Panel Meter

19598 ME | Red | $4.95 ea
19599 ME | Blue | $4.95 ea
19600 ME | Green | $4.95 ea
32961 ME | White | $5.95 ea

LED self powered meter 0.1Volt resolution .375" Character height 5" wire leads. No Bezel.



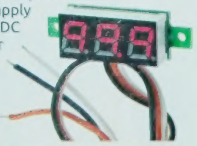
0-5Amp DC LED Panel Meter

32924 ME | $8.95 ea

Mini 3 Digit 0-100VDC LED Panel Meter

32321 ME | $3.95 ea

Requires a separate Power Supply 2.5V-30VDC for meter



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Popular item for connecting your motor to a different size shaft. Helical cut to prevent miss aliment. Aluminum body and dual set screws in each end Outside dimensions 18mm Diameter by 25mm long.

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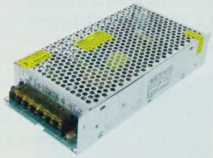
33601 HD | 3mm to 6mm | $3.95 ea
33602 HD | 3mm to 1/4" | $3.95 ea
33603 HD | 4mm to 5mm | $3.95 ea
33604 HD | 4mm to 6mm | $3.95 ea
33605 HD | 4mm to 1/4" | $3.95 ea
33606 HD | 4mm to 8mm | $3.95 ea
33607 HD | 4mm to 10mm | $3.95 ea
33608 HD | 5mm to 6mm | $3.95 ea
33609 HD | 5mm to 1/4" | $3.95 ea
33610 HD | 5mm to 8mm | $3.95 ea
33611 HD | 6mm to 6mm | $3.95 ea
33612 HD | 6mm to 1/4" | $3.95 ea
33613 HD | 6mm to 8mm | $3.95 ea
33614 HD | 6mm to 10mm | $3.95 ea
33615 HD | 1/4" to1/4" | $3.95 ea
33617 HD | 1/4" to 8mm | $3.95 ea
33619 HD | 7mm to 7mm | $3.95 ea
33620 HD | 7mm to 8mm | $3.95 ea
33621 HD | 8mm to 8mm | $3.95 ea
33622 HD | 8mm to 10mm | $3.95 ea
33623 HD | 10mm to 10mm | $3.95 ea

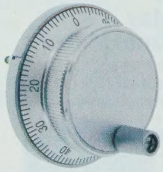
24 Volt Power Supply 6.5A 150W Switching

33470 PS | $14.95 ea



Handwheel Digital Encoder 100PPR

33106 MI | $19.95 ea



0-30VDC, 0-3A Variable Benchtop Power Supply

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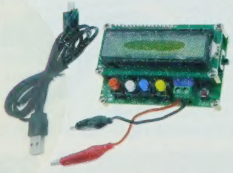
Breadboard with built-in multi-output power supply. Dual LED Meters monitor the + & - Variable output supplies. Features: one +5VDC @ 1.5Amp supply, one 0 to +16VDC @ 500mA supply, one 0 to-16VDC @ 500mA supply All parts are mounted in a ABS plastic case.

Digital Inductance/ Capacitance Meter

33374 TE | $28.95 ea



Sound Level Indicator

33596 MI | $5.95 ea

12 Volt 3Amp Adapter Power Supply

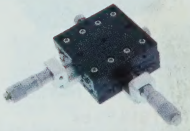
33465 PS | $7.95 ea

1.0F @ 5.5V Super Capacitor Panasonic

33924 PM | $4.95 ea

2 Axis X/Y Stage

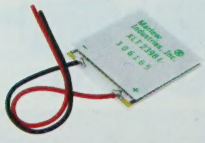
33402 MI | $139.95 ea



Shock Mount Studs 4 Pack 32800 HD | $4.95 ea

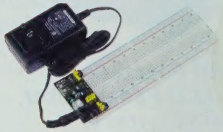
Thermoelectric Cooling Mod. 63 Couple, 12VDC

33494 CR | $2.50 ea



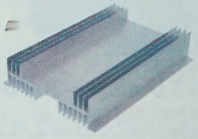
Powered Breadboard

30176 TE | $10.95 ea



10" x 7" x 2" Aluminum Heat Sink

33305 HK | $19.95 ea



Multi Function AC LCD Panel Meter

32403 ME | $24.95 ea